ASI DOORS

OWNER'S MANUAL

MODEL 615/615F

High Speed Interior/Exterior/ Freezer Fabric Roll-Up

MANUAL PART #: 17A260

Safety Practices

This is a safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠ DANGER

DANGER indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

WARNING indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

CAUTION

CAUTION used without a safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

NOTE

NOTE explains general information.

⚠ WARNING

Warning read these safety practices before installing, operating or servicing the SLIDING door. Failure to follow these safety practices could result in property damage, death or serious injury.

READ AND UNDERSTAND ALL WARNING LABELS AND OPERATING INSTRUCTIONS IN THIS MANUAL BEFORE OPERATING THE SLIDING DOOR. If you do not understand the instructions, ask your supervisor to teach you how to use the SLIDING door.

Safety Practices (cont'd)

1. Do not operate the door while under the influence of drugs or alchohol.
2. Do not use the door if it looks broken or does not seem to work properly. Advise your supervisor at once.
3. Stay clear of the door when it is moving
4. Keep hands, feet and head clear of the door at all times.
5. Do not operate the door with equipment, material or people directly inside door opening.
6. Disconnect power before performing any electrical or mechanical service, cleaning or other maintenance on the door. OSHA requires disconnect to be properly tagged and locked out during all maintenance or service of equipment. With the power supply disconnected, always verify using a volt meter.
7. All electrical troubleshooting or service must be completed by a qualified electrician or service person and must meet all applicable local, state, federal, international and other governing agency codes.
8. When it is necessary to service the control box with power on, USE EXTREME CAUTION. Do not place fingers or uninsulated tools inside the control box. Touching wires or other parts inside the enclosure may cause electrical shock, serious injury or death.
9. It is your responsibility to keep all warning labels and instructional literature legible, intact and kept with the door. Replacement labels and literature are availale from ASI Doors, Inc. or its representatives.
10. If you have any questions, contact your supervisor or your local ASI Doors, Inc. representative for assistance.
11. Train all service and personnel using or near door on intended use(s) and operation of the door.
12. Failure to operate the door as intended, as described, or heed any warning may result in equipment damage, property damage, serious bodily injury or death.

Warranty Policy

ASI Doors (herein called "ASI") warrants solely for the benefit of its customer that each door system manufactured by ASI (each a "Door System") will be free from defects in material and manufacture for a period of one (1) year from the date of original shipment by ASI. The following models receive a similar two (2) years from date of shipment warranty: 109, 209, 120-125, 1240-125-, 1240SS-1250SS, 1260-1270, 1260SS-1270SS, 130-135, 140-150, 160-170, 220-225, 220SS-225SS, 230-235, 230SS-235SS. In all instances warranty labor is covered for a period of one (1) year from the date of original shipment.

The foregoing limited warranty shall not apply to defects that result from improper installation, abuse, misuse, alteration, modification, or failure to maintain the Door System in accordance with the ASI Owner's Manual. Periodic maintenance and adjustment of the Door System as described in the ASI Owner's Manual are the sole responsibility of the customer. All claims for defects must be made to ASI within thirty (30) days after the defect is discovered or should, with reasonable care, have been discovered. **THE FOREGOING LIMITED WARRANTY CONSTITUTES THE EXCLUSIVE WARRANTY OF ASI WITH RESPECT TO THE DOOR SYSTEM. ASI EXPRESSLY DISCLAIMS ALL OTHER GUARANTEES OR WARRANTIES—WHETHER EXPRESSED, IMPLIED, OR STATUTORY, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

If a Door System does not comply with the foregoing limited warranty, and a claim is made by customer within the warranty period, ASI will, at the option of ASI, either repair or replace any defective equipment or parts free of charge and pay the reasonable labor costs to repair or replace the defective equipment or parts if within the defined warranty period. The remedy of repair or replacement shall be the exclusive and sole remedy for any breach of the foregoing limited warranty.

ASI SHALL NOT IN ANY EVENT BE LIABLE FOR ANY INCIDENTAL, INDIRECT, SPECIAL, EXEMPLARY OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING WITHOUT LIMITATION ANY LOST PROFITS, ARISING FROM THE SALE OR USE OF THE DOOR SYSTEM, OR FROM ANY OTHER CAUSE WHATSOEVER, WHETHER THE CLAIM GIVING RISE TO SUCH DAMAGES IS BASED UPON BREACH OF WARRANTY (EXPRESSED OR IMPLIED) BREACH OF CONTRACT, TORT, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY, EVEN IF A PARTY HAS BEEN ADVISED OF THE POSSIBILITY THEREOF, AND REGARDLESS OF ANY ADVISE OR REPRESENTATION THAT MAY HAVE BEEN RENDERED BY ASI CONCERNING THE SALE OR USE OF THE DOOR SYSTEM.

At ASI's request, customer shall return to ASI for inspection any Door System for which a warranty claim has been made, F.O.B. ASI's facility with freight prepaid. The customer is responsible for any removal costs.

The customer shall comply with the following procedures in filing a warranty claim with ASI:

1. Notify ASI of any and all defects in writing with photographic evidence. ASI will review the warranty request and issue a Returns Merchandise Authorization (RMA) form if the defective parts need to be returned to ASI for inspection and verification. The RMA form must accompany any materials returned for warranty consideration.

2. All replacement parts or equipment will be invoiced to the customer. Upon verification by ASI that the Door System is defective, ASI will issue a full credit to customer for the replacement parts or equipment.

3. If outside labor is needed to install the replacement parts or equipment, ASI requires a written estimate of the labor charges in advance so ASI may approve the labor charges and issue a purchase order. ASI will not accept any labor charges unless previously approved in writing and accompanied by the ASI purchase order number.

(Rev 12/21)

Crates and Contents

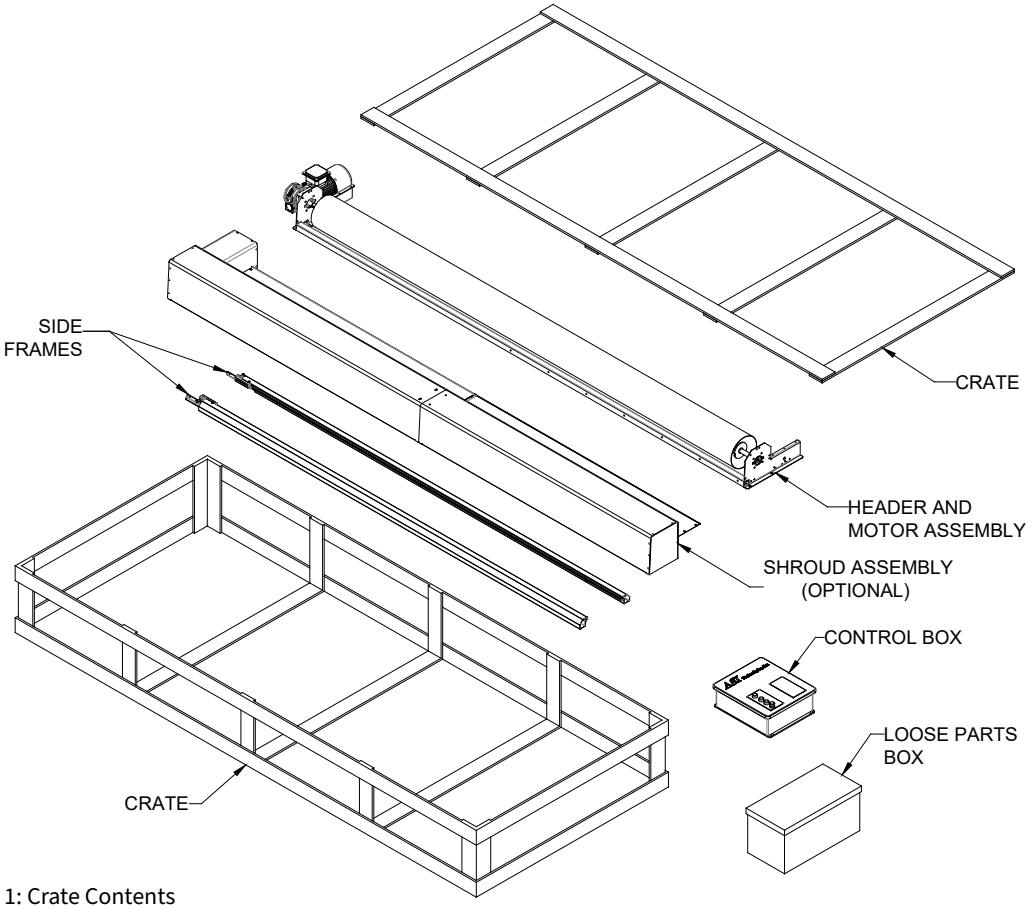


Figure 1: Crate Contents

Upon receipt of the shipment, check that you have received the correct number of pieces as shown (Figure 1). Crate will contain the side-covers, the header assembly, the loose parts box, and control box. For your protection, note any damages or shortages on the carrier's bill of lading before signing the bill for receipt.

The installation of this door will require at least a two man crew and a fork-lift. Select a fork-lift with lifting height based upon the height of the door, plus a minimum additional two feet.

NOTE

Because of variances in the construction of walls on which the door will be mounted, fasteners are not supplied. For proper anchoring of the door, we recommend the use of thru-bolts. DO NOT remove door sections from crate until you encounter the step in which they are to be installed.

Unless specifically called out as "Provided by ASI", installer is to provide all necessary mounting hardware, anchors, inserts, hangers, supports and equipment needed to install door in accordance with final shop drawings and manufacturer's instructions.

Loose Parts

Description	Qty.
Installation Instructions	1
Sales Drawing	1
Misc. Activation Devices	As Ordered
Owners Manual	1
Warning Name Plate Assembly	2
<u>Control Enclosure Box</u>	
Control Box	1
Track Lubricant	1
6mm Hex Drive	1
Photo Eyes	2
Schematic	1
Misc. Activation Devices	As Ordered

Door Measurements

1. Make contact with the person responsible at the customer's place of business – check access conditions and prevailing safety practices.
2. First check the dimensions of the construction opening. The exact measurements can be found on the production sheet supplied with the door.
3. Carefully unpack the door and check the various components:
   - Left and right side frames.
   - Roll-up mechanism and installation manual included in the packing list.
   - Control box, wiring diagram, photo eyes and cable for anti-roll off switch.
   - Fasteners for the door, the operating controls and other accessories.

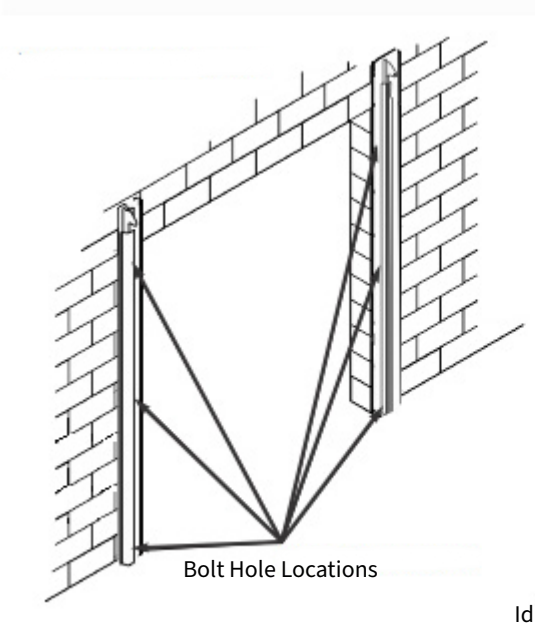


Figure 2: Door Measurements

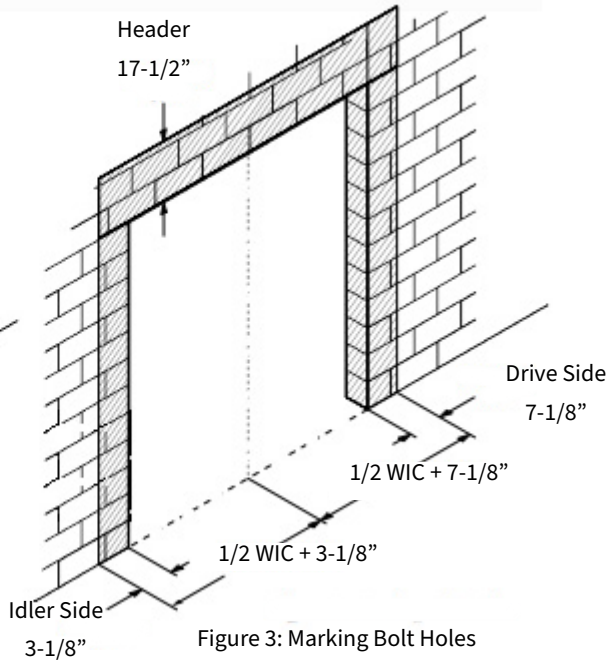


Figure 3: Marking Bolt Holes

Tools Required

Description	Qty.
Tape Measure	1
Water Level	1
Pencil	1
General Purpose Pliers	1
Wire Cutters	1
Wire Strippers	1
Digital Volt/Ohmmeter	1
Silcone Caulk Gun	1
Hammer	1
Screw Drivers	1
Extension Corder	1
Electric Screwdriver	1
Electric Drill	1
Hammer Drill	1
Set of Contrete Drill Bits 1/4" to 5/8"	
Set of Metal Drill Bits 1/4" to 5/8"	

Assembly On The Floor

NOTE

Note only ASI Doors qualified personnel are authorized to carry out this work.

Assembly on the floor:

Complete any additional structure support for the doorframe before you begin assembling the door. To ease the installation of the door, you may find it desirable to use a fore frame, particularly where the mounting wall is substantially out of true and plumb.

Remember to verify the door measurements. For the most accurate measurements, measure the width of the door just above the reintroduction points located on each side. See Figure 4

1. Measure the height and width of the door opening.
2. Compare these measurements to the width of the head assembly.

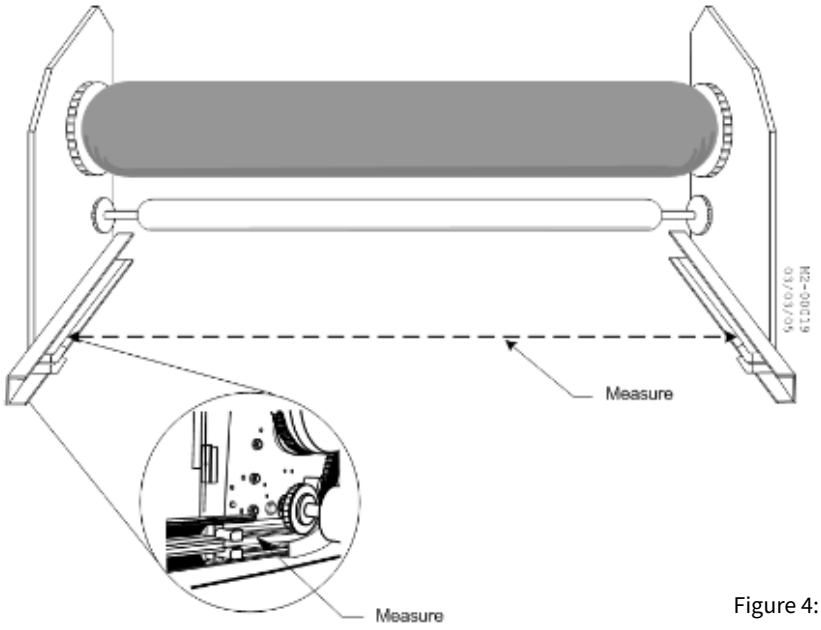


Figure 4: Measuring the Door

Door Assembly

1. Clear the door mounting area of all obstructions.
2. Attach the side guides to the head assembly.
3. Secure the side guides to the header unit with the bolts, nuts and washers.

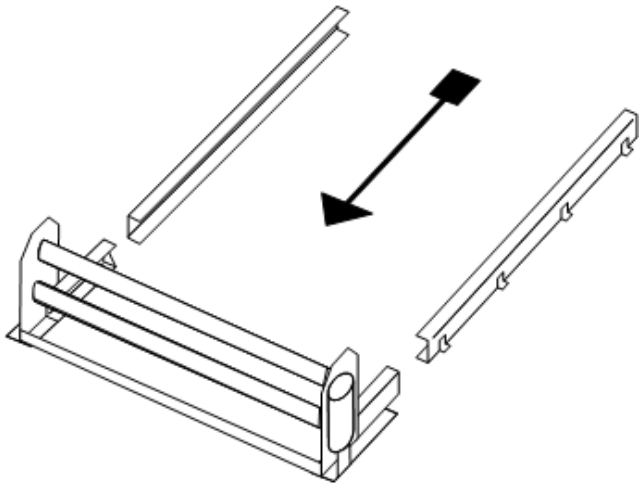


Figure 5: Attaching the Slide Guides

4. Align the inner guide with the re-introduction points to assure a straight path for the curtain to travel.

NOTE

Note tighten the hold-down scres firts.

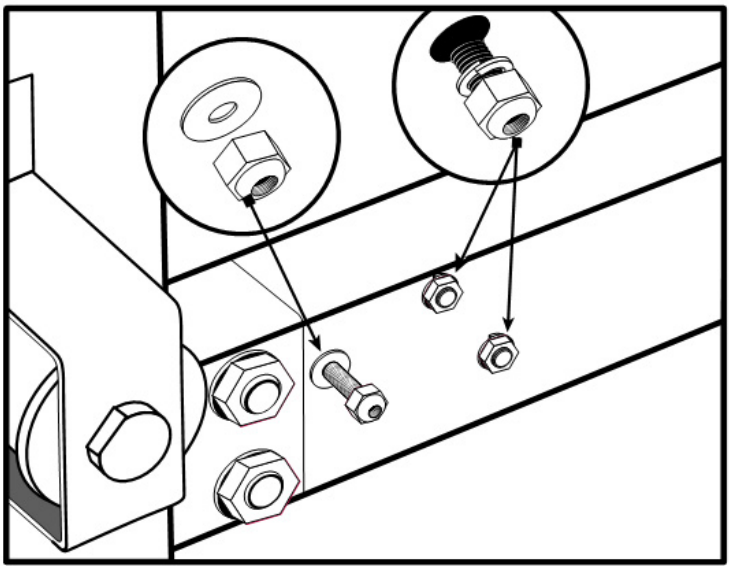


Figure 6: Securing the Slide Guides

5. Tighten the top stud with the lock nut when the path is achieved.

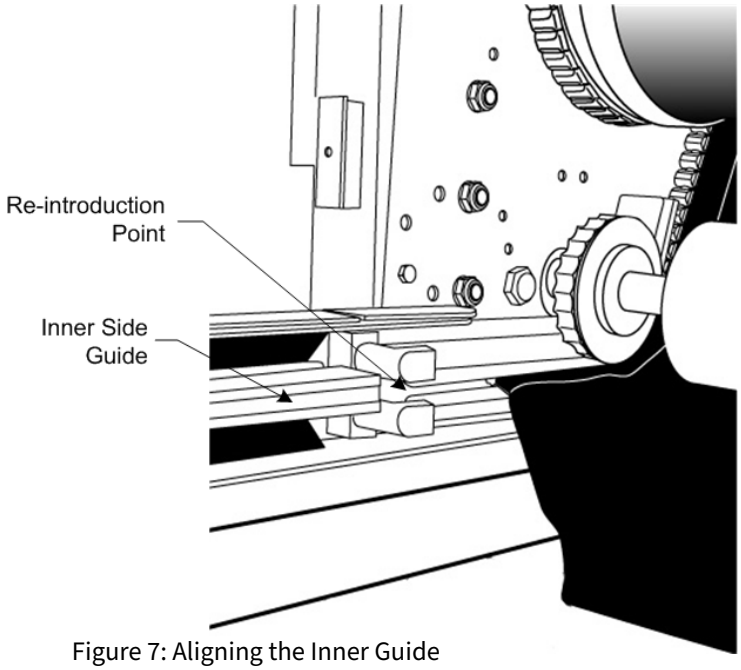


Figure 7: Aligning the Inner Guide

6. Place the head assembly of door of the forklift, ensuring that the forks are beneath the u-profile.

⚠ CAUTION

Caution strap the head unit to the forks to ensure that it does not slip from the forks while you are rasing it.

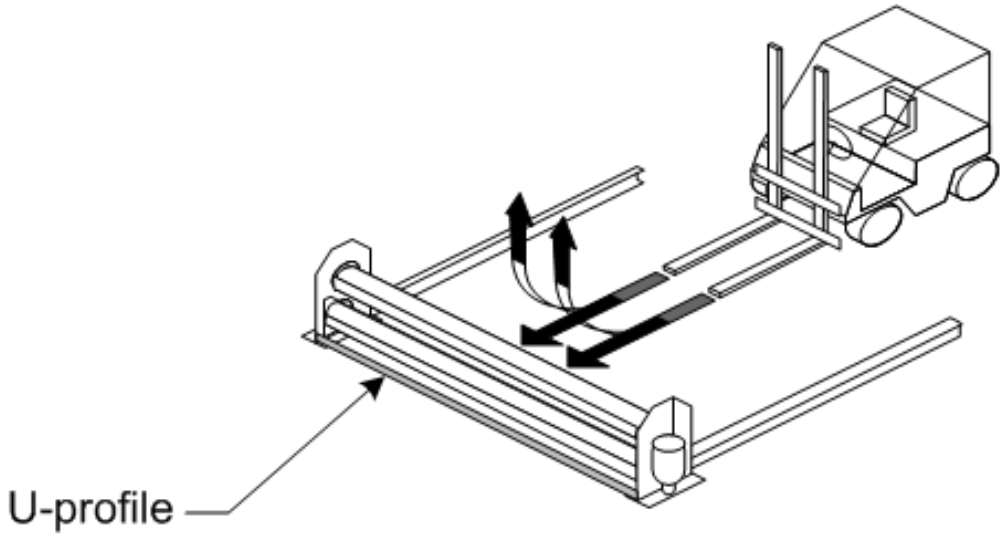


Figure 8: Placing the Head Assembly on the Forks

Door Mounting

1. Lift the door with the forklift. The door will tilt to a vertical position as you lift the forks(Figure 9).

⚠ CAUTION

Caution clear area of obstructions if the frame drags along the ground and may be snagged or damaged during installation

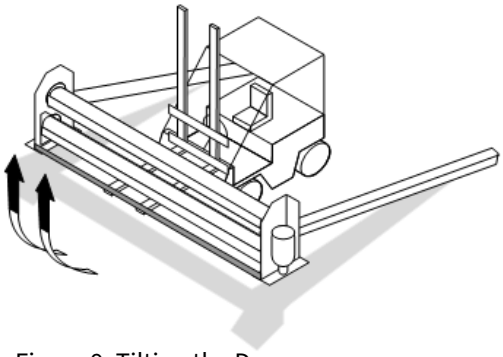


Figure 9: Tilting the Door

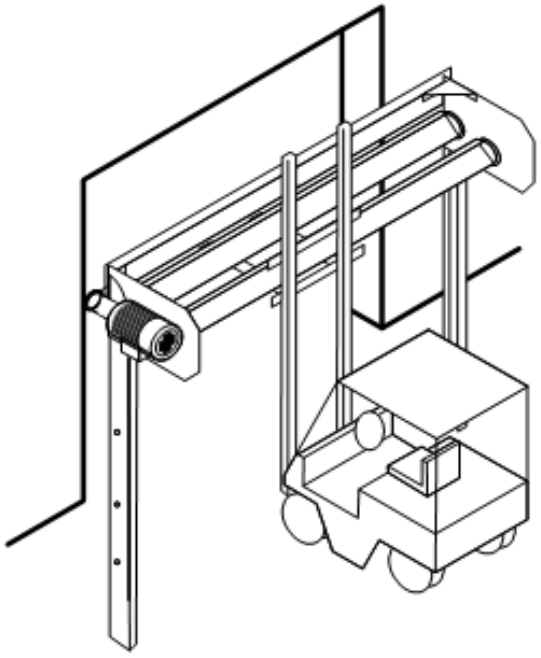


Figure 10: Placing the Door Against the Opening

2. Place the unit against the door opening while checking the levels (drum, struts and side posts) (Figure 10).

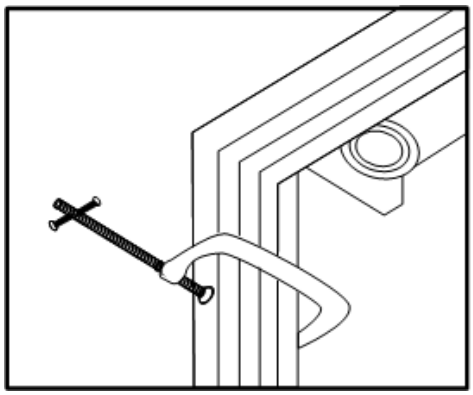


Figure 11: Temporarily Attach the Door

3. Temporarily attached the door with clamps or some other secure method (Figure 11).
4. Using a level, check each side of the door opening for level and plumb.
5. If necessary, shim the low side of the opening where the side guide of the door will be positioned (Figure 12).
6. Continue to adjust the door's postition until it is absolutely plumb and level (Figure 13).

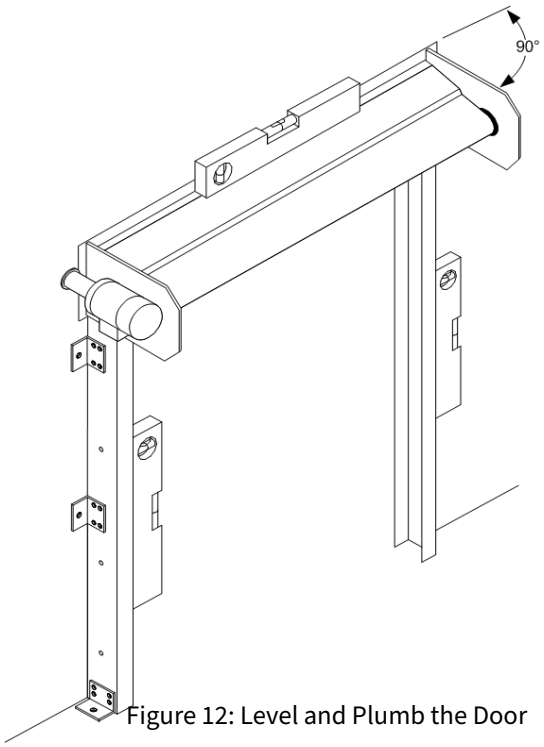


Figure 12: Level and Plumb the Door

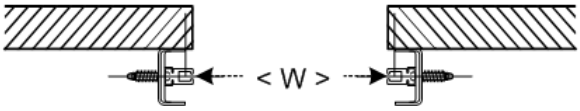


Figure 13: Check Inside Dimension Measurement

Door Mounting Continued

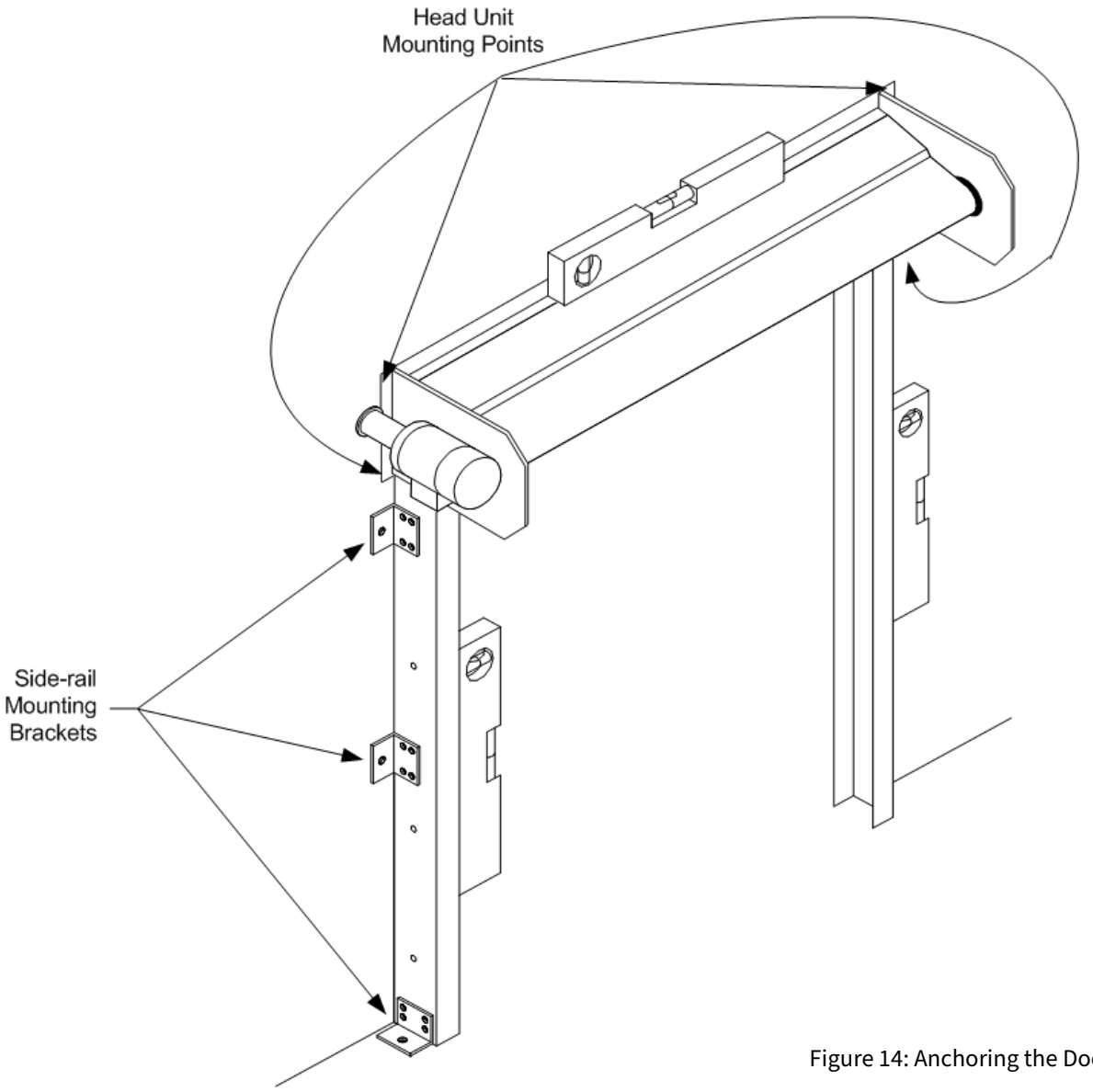


Figure 14: Anchoring the Door

7. Measure the inside dimension (W) between the two side guides, ensruing that it is the same at the top, middle and bottom.
8. Permanently anchor the door in the following order:
    a. Head unit mounting points.
    b. Side rail mounting points.

Optional Mounting

Mounting The Door Using A Fore Frame:

Door can be mounted using a “Fore Frame” or “Build Out” between door frame and face of opening. All steps for dimensions, plumb & level apply as in standard mounting.

⚠ CAUTION

Caution vertical alignment of the side-guides is very important! Failure to ensure aplum and level mounting may result in a door with a curtain that is not smooth and flat. This prevents the curtain from properly sealing.

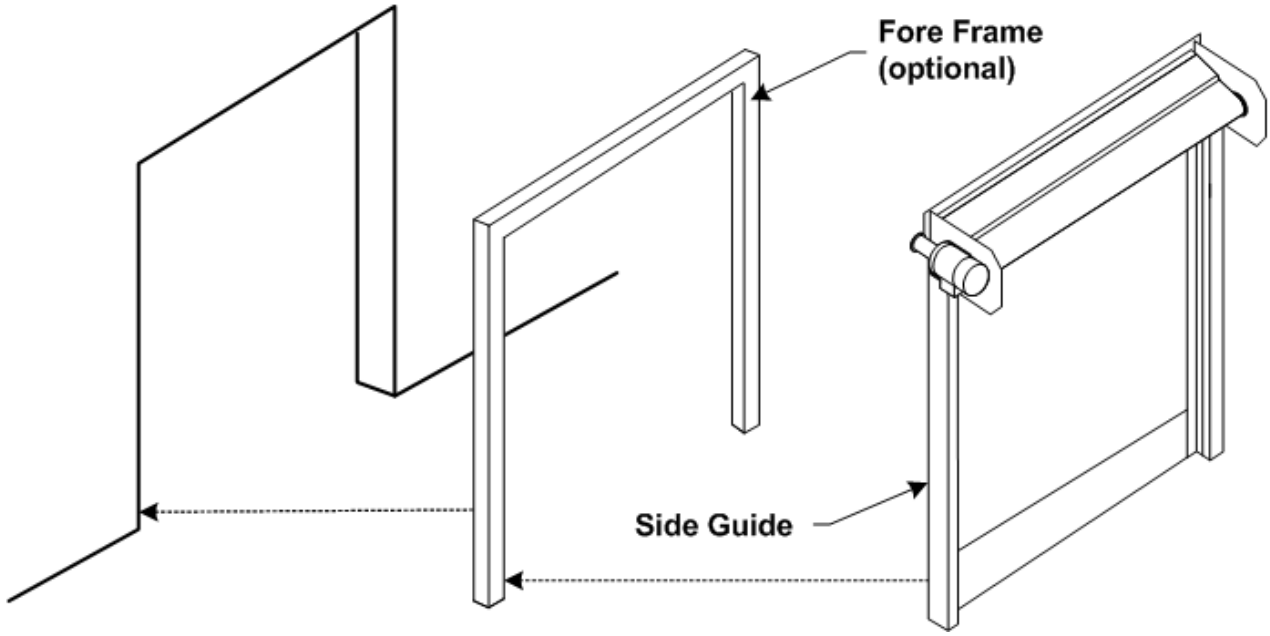


Figure 15: Mounting Door Using Fore Frame

See figure 16 for various wall mounting techniques.

Optional Mounting Continued

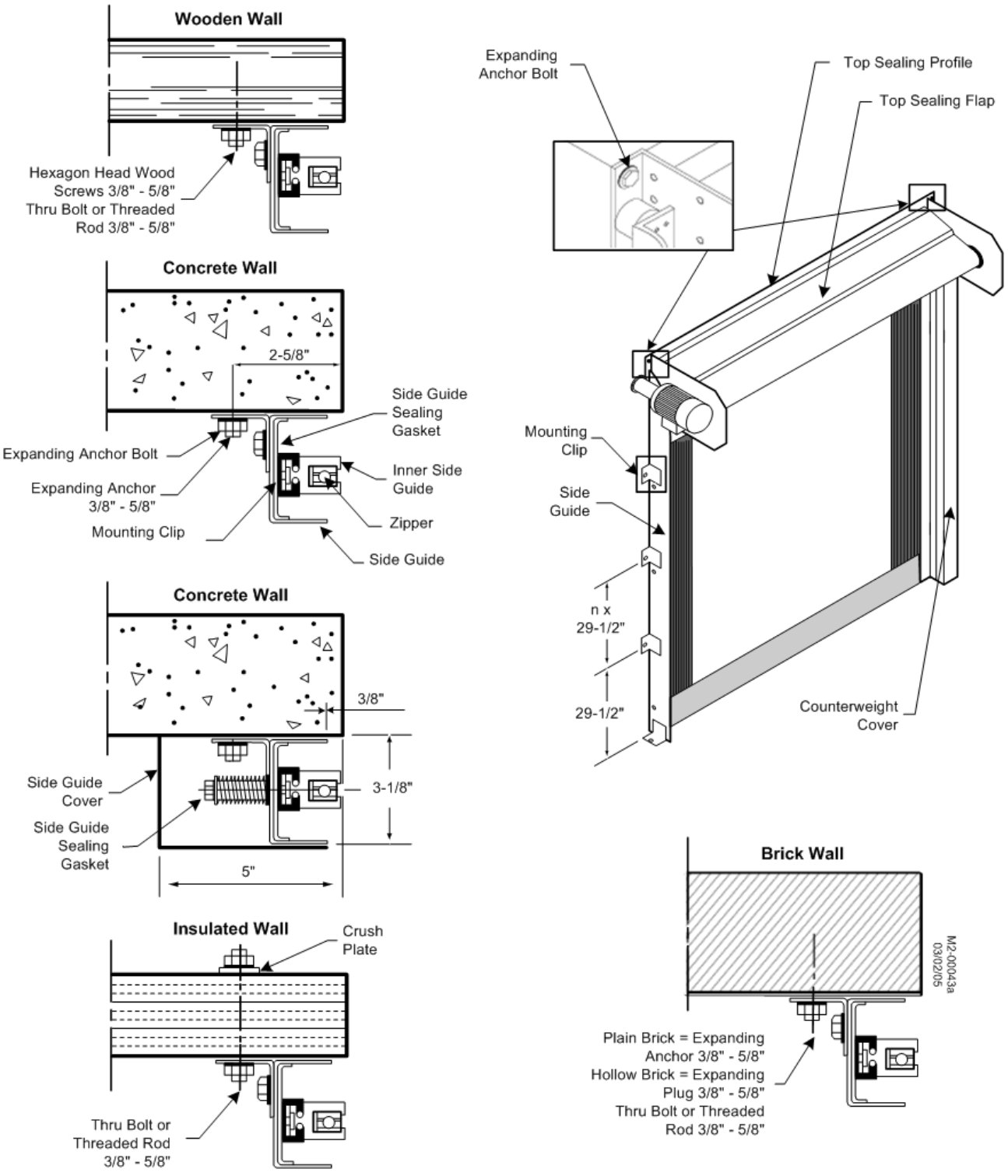


Figure 16: Wall Mounting Options

Optional Mounting Continued

1. Remove protective shipping material from the curtain.
2. With one person at each end of the door, loosen the curtain from the roll-up drum and position the first tooth at each side within the drive

NOTE

Note for best results, use two people to complete this prcedure

3. Apply provided lube to side guides.
4. Insert the ratchet and key into the drive motor fan opening.
5. While holding moderate pressure to each zipper, rotate the drive motor backwards slowly to push the zipper back and slip the first tooth of each zipper into the next tooth of the drive gears.
6. Reverse direction of the ratchet and rotate the drive motor until the last tooth on booth sides of the curtain are even with the reintroduction point.

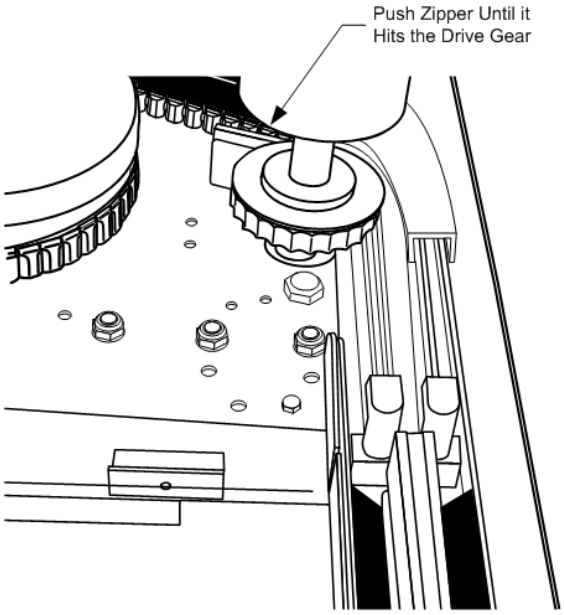


Figure 17: Feeding the Curtain

⚠ CAUTION

Caution Do not leave the door unattended without the counterweight installed. Until you install the counterweight,there is risk of the curtain slowly unraveling onto the floor

NOTE

Note use of a powered drill or impact driver is NOT recommended, and may damage motor or hex drive.

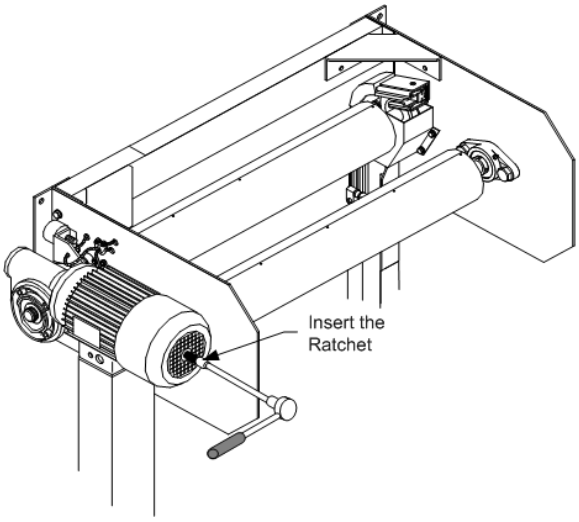


Figure 18: Move Curtain Through Drive

INSTALLATION

Counterweigh Installation

1. Ensure the curtain is in the up position.
2. Locate the pre-assembled belt on the rollup drum shaft.
3. Unroll the belt until 2" remain on th shaft.
4. Pass the belt behind the counterweight pulley without twisting it.
5. Securely support the counterweight at 20 inches above the floor. (The counterweight may be lower depending on door size).
6. Attach the belt to the counterweight with the hardware provided.
7. Manually lower the door to verify that travel of the counterweight is unobstructed.
8. Remove any excess belt.
9. Verify that the weight is mounted straight vertically and at an angle.

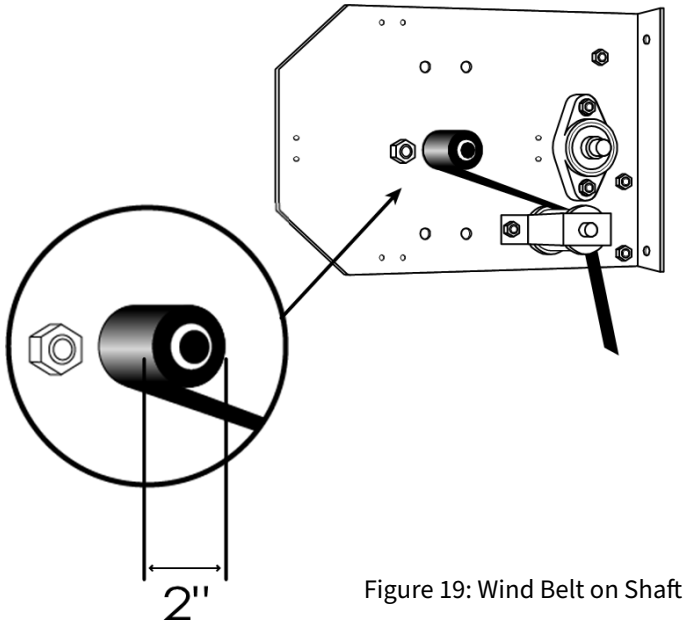


Figure 19: Wind Belt on Shaft

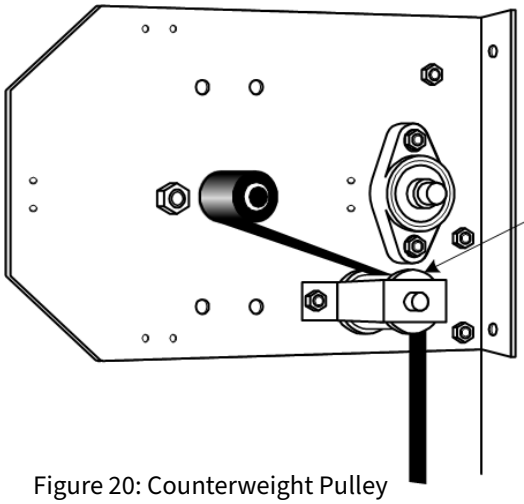


Figure 20: Counterweight Pulley

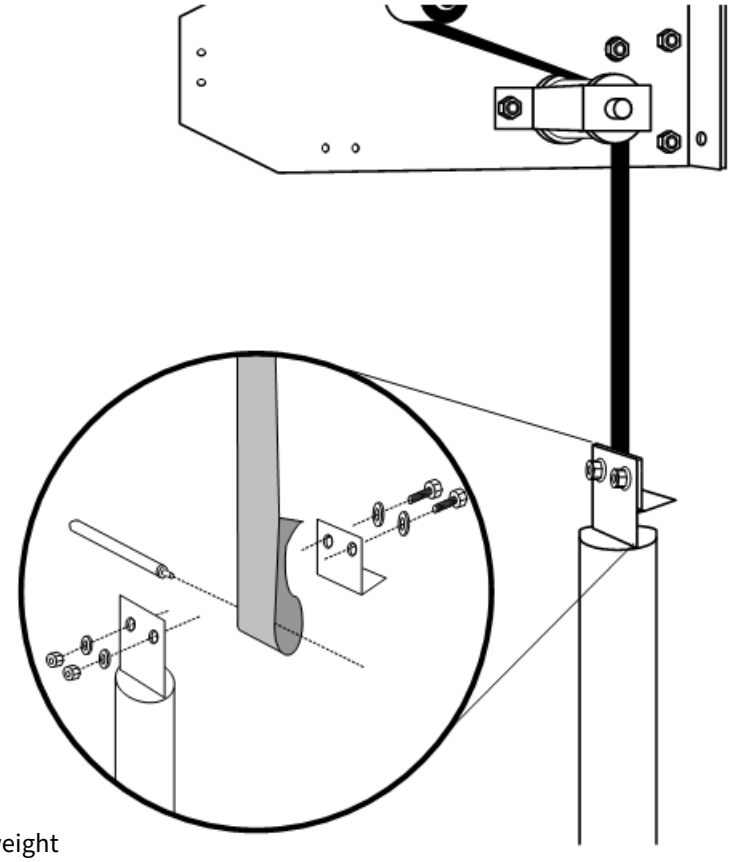


Figure 21: Attach Counterweight

Mount Control Box and Photoeyes

1. Mount the Control Box on the motor side of the door, approximately 5’ 3” above the floor level.
2. Run the conduit as appropriate.
3. Mount the photo eyes in the predrilled holes in the side guides (located approximately 12” from the floor).

⚠ CAUTION

Caution run conduit and cables into the bottom of the control box only! Do not drill into the side or top of the control box. Doing so will void the warranty! (If you are running conduit, place the motor cable in its own conduit.)

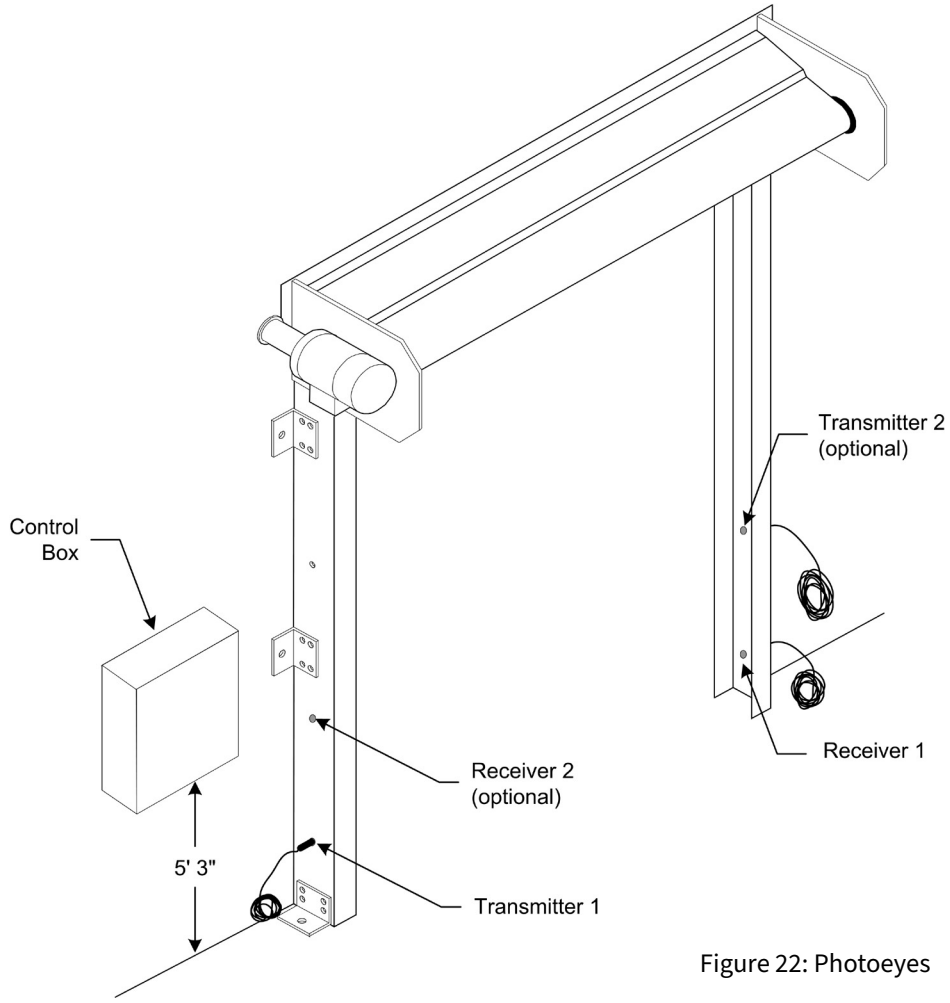


Figure 22: Photoeyes

NOTE

Note if more than one pair of photo eyes is used, do not install two transmitterson the same side.

Note the photo eyes emit a low frequency pulsed signal. They must beclean and directly aligned for proper operation.

Note the photo eyes will not line up if the side guides are not plumb and level.

⚠ CAUTION

Caution ensure that the photo eye is flush with the inside attachment nut and does not project into the side rail.duit, place the motor cable in its own conduit.)

Manual Operation

In the event that the door must be moved up or down manually, the ratchet and key from the accessory kit may be used to operate the door manually.

1. Check that the door is disconnected from the power source.
2. Insert the ratchet and key into the drive motor fan opening.
3. Turn the ratchet to move the door up and down.

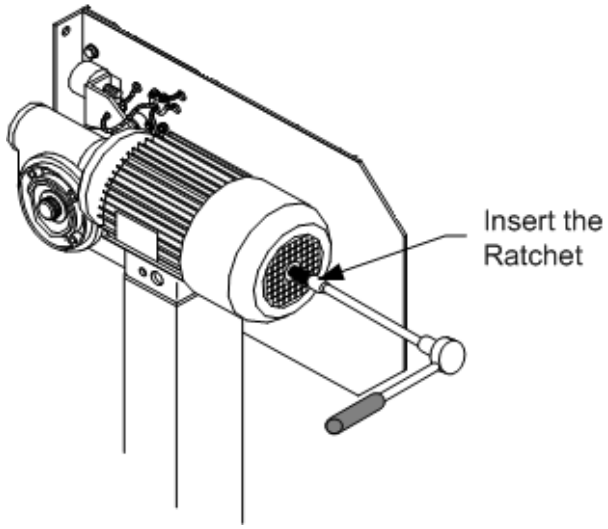


Figure 23: Manual Operation

⚠ CAUTION

Caution Use of a powered drill or impact driver is NOT recommended, and may damage motor or hex drive.

⚠ WARNING

Warning remove the ratchet and key before applying power.

Precautions With The Frequencey Inverter:

⚠ DANGER

Danger when a frequency inverter has power supplied to it, the electrical elements and a number of operating controls are also 'live'. Never touch these elements. This is extremely dangerous. The cover of the frequency inverter must always be closed.

When the emergency stop is activated, the frequency inverter remains 'live''. If this is a threat to the safety of the staff, the power circuit must be interrupted by locking the main switch on the control box.

After turning off and locking the main power switch, it is always necessary to wait 5 minutes before starting work. This is the time required to discharge the capacitors of the frequency inverter.

The frequency inverter has integrated safety systems for stopping the door. A mechanical block, fluctuations in voltage and interruptions of the power supply, can also bring a door to a stop. This is shown with a fault message on the frequency inverter screen. After locking the main switch, and having removed the blockage, the main switch has to be unlocked and the door opened manually to re-charge the frequency controller.

In the event of work (on the electrical and/or mechanical part of the installation), the power supply to the frequency inverter must be switched off; to do this, the main switch on the control box must be locked.

Warranty and Liability

⚠ WARNING

Warning check all warnings weekly. Door may unexpectedly close. Failure to mount and maintain all warnging labels and instructional literature could result in death or serious injury.

Figure 24: Warning Label installation - Wall Mount

Warranty claims will only be considered if the door was being operated and treated correctly. In the event of unauthorized repairs and modification to the construction and the operation of the door, the warranty will be invalidated. This rule also applies to damage resulting from defects that are the consequence of failure to follow the operating instructions or of inadequate maintenance of the door.

Electrical Controls

⚠ WARNING

WARNING control box contain HIGH VOLTAGE! The following procedures should be performed by qualified personnel only. Wiring must meet all local, state federal and international or other governing agency codes. Keep hands and body parts clear of high voltage areas. Failure to do so could result in death or serious injury.

WARNING disconnect power at the fused disconnect during all electrical or mechanical service. Disconnect must be properly locked out during maintenance or service or equipment. Failure to do so could result in death or serious injury.

NOTE

NOTE wiring must be completed by a licensed electrician. All wiring connections must be in accordance with alllocal. state, federal, NEC or other governing agency codes. Reference electrical drawings shipped with door.

NOTE refer to electrical schematic for connections.

1. Make sure prewired cable supplied is of sufficient length to enable location of control box where desired. Mount control box to a convenient location, leaving sufficient room for control box door to be opened.

2. All wiring should be installed and connected by a qualified electrician who is knowledgeable with nec article 430 and with local regulations. Electrician should make sure that the voltage and frequency of the electrical supply corresponds with the motor data listed on the control box cover.

CAUTION

CAUTION protect and cover all electrical components inside the control box prior to drilling enclosure. Failure to do so may result in component malfunctions.

NOTE

NOTE fused disconnect complying with applicable electrical codes must be supplied by others.

1. Prewired cable from motor must not be spliced. Run this cable to control box (Figure 25).
2. From a fused disconnect, route power supply wires to the control panel and connect to terminal blocks“L1”, “L2”, “L3”. Also attach a ground to control panel terminal.
3. All connections for motor, encoder, photoeyes, anti-roll switch, and any activation devices should bemade per the schematic. All wiring connections from harness must be terminated in the control box(see Figures 25 & 26).

NOTE

NOTE any wiring by others **MUST** come into control box from bottom as shown, or warranty is void.

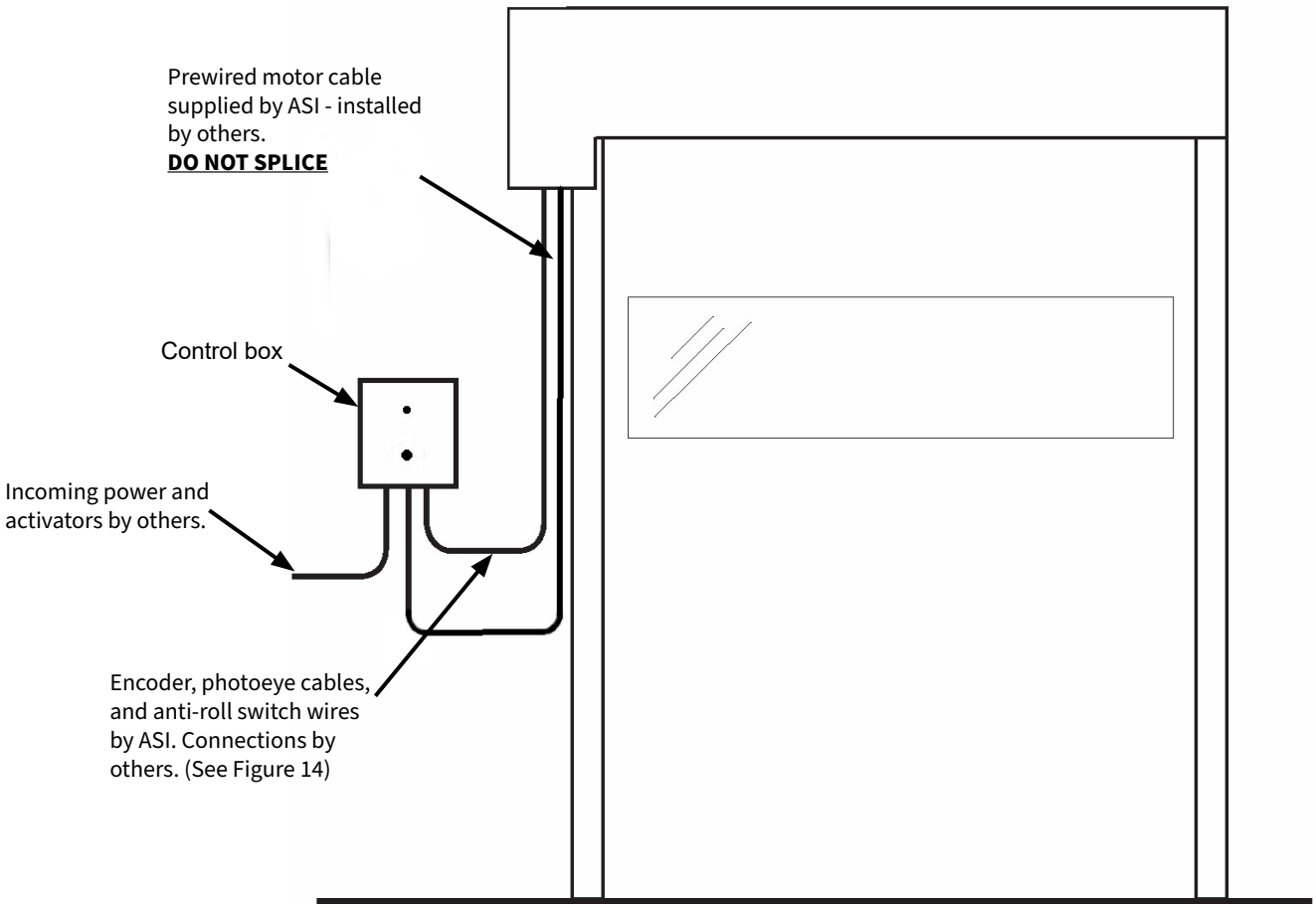


Figure 25: Wiring Installation

Electrical Controls Continued

Install the control box at a location agreed with the user. Check that the power supply agrees with the connections of the transformer, motor, and frequency inverter. If necessary, modify.

Connect the following in accordance with the electrical diagram and the specific notes supplied with the door:

- The motor- **DO NOT SPLICE THE SUPPLIED HIGH VOLTAGE MOTOR CORD – IT HAS SHIELDING THAT IS REQUIRED FOR PROPER DRIVE OPERATION.**
- The wires for the absolute encoder that controls the OPEN/CLOSED positions of the door.
- The photoelectric cell wires from each side frame (**see illustration below for routing non-drive side cable**).
- Opening and Interlocking control devices.

Activate the emergency stop button and check whether the the magneto-thermal main switch is off. Check that the power cable is not 'live' and connect the switch to the power supply.

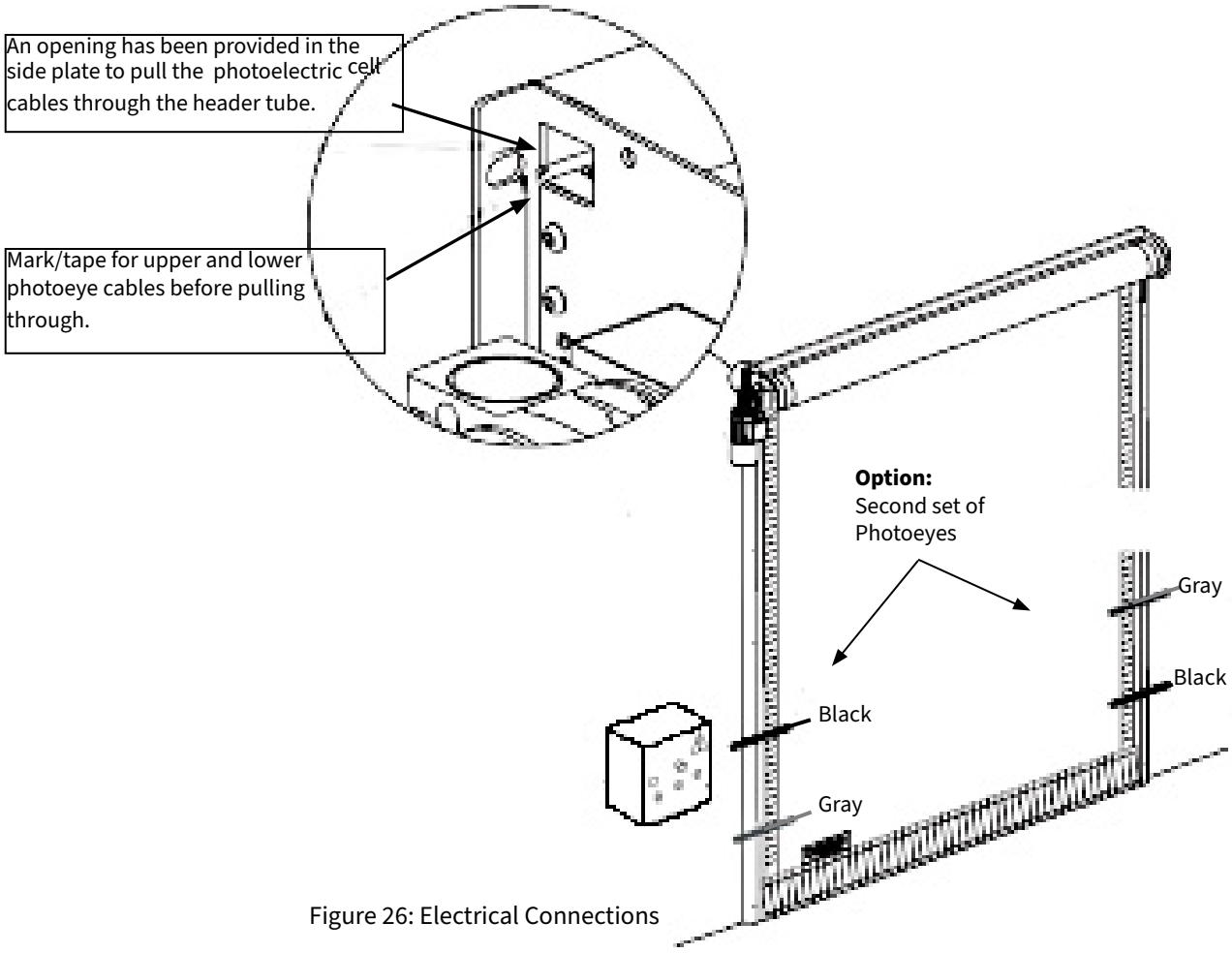


Figure 26: Electrical Connections

Electrical Controls Continued

The ASI Doors Door controller monitors all operations of the door.
You use this device to:

- Define the automatic close timers
- Monitor and troubleshoot the input connections
- Interpret and correct any malfunctions or alarms

Note: The door will not run until the controller display reads ‘Ready’.

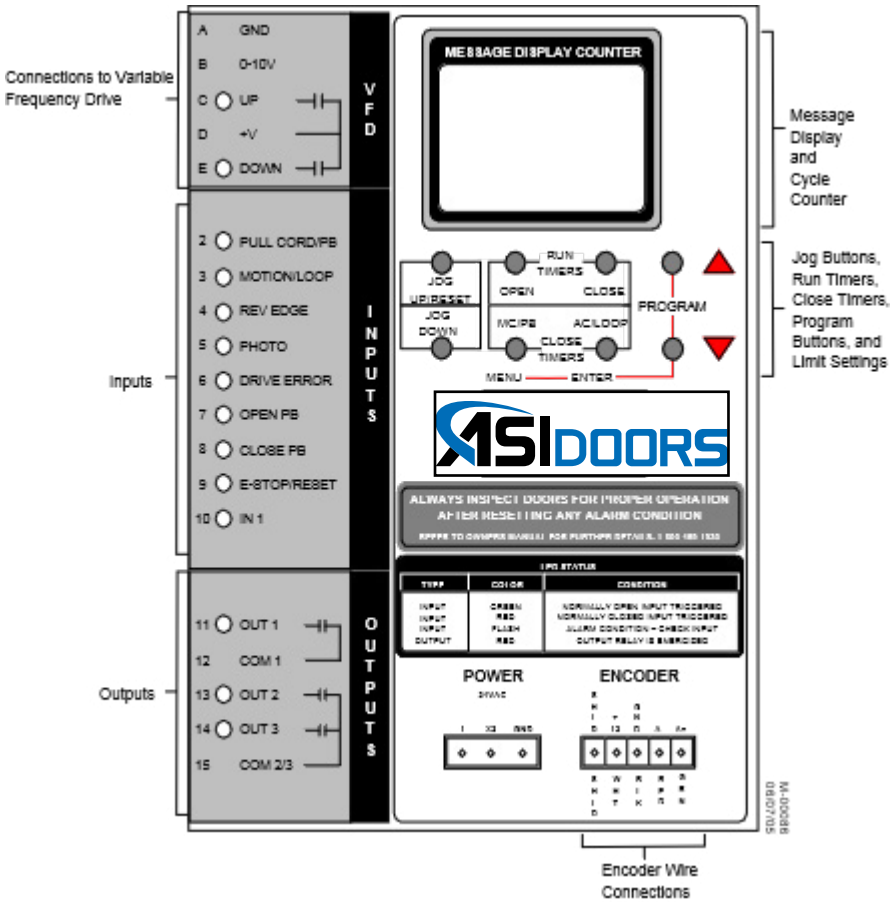


Figure 27: Controller

Error Messages

Message Display	Trouble Shooting
Ready ####	All required connections are correct and the door is ready for operation. The number indicates the cycle counter. The Controller will not allow the door to operate unless this message displays.
Drive Error	A drive error occured. Check drive display for error code.
Rev - Edge Tripped	The reversing edge or anti-roll switch is tripped. The reversing edge is a normally open circuit and will not fail open, the door will continue to operate with out the edge. Also check any other reversing device that may be wired into terminal and input # 4.
Opening Expired	The open run time timer expired. Press and release the E-stop button to clear the fault. Jog the door open and closed and verify there are no mechanical problems. The open run timer may be set too low. Press the “open run timer” and increase the second with the “program up arrow” (usually 10 seconds is sufficient).
Closed Expired	The close run time timer expired. Press and release the E-stop button to clear thecfault. Jog the door open and closed and verify there are no mechanical problems. Thecclose run timer may be set too low. Press the “close run timer” and increase the second with the “program down arrow” (usually 10 seconds is sufficient unless the closing speed has been slowed down).
SET LIMITS	The limits have not been set. Set limits (see Section “Setting Door Limits” for instructions.)
ENCODERCOM_LOSS	The encoder is not communicating with the controller. Check the wires connections on the harness that plugs into the controller for loose connections. The encoder may be damaged and may need to be replaced.

Table 28: Controller Error Messages

Electrical Installation

CAUTION

CAUTION ensure that the incoming supply for the door is compatible with the transformer, motor, and inverter.

Frequency Inverter Voltage Range:
120 V = Single Phase
480 V = 3 Phase
230 V = Single Phase or 3 Phase
208 V = Single Phase or 3 Phase
Failure to ensure compatible power supply may result in fire and will damage the door.

CAUTION

CAUTION refer to the electrical schematic shipped with the door for appropriate circuit protection.

CAUTION ensure that the electrical installation for this door complies with the national electrical code (NEC) and/or your local electrical code.

Primary Connections

1. Connect the incoming power. CAUTION: run the wires (conduit) through the BOTTOM of the control box, up the left side, and connect them into the terminal strip or optional disconnect. (See Figure 16). Bringing in power from the top of the control box will void the warranty.

- For a 3-phase unit, use terminals L1, L2, and L3.
- For a Single Phase unit use terminals L1 and L2.

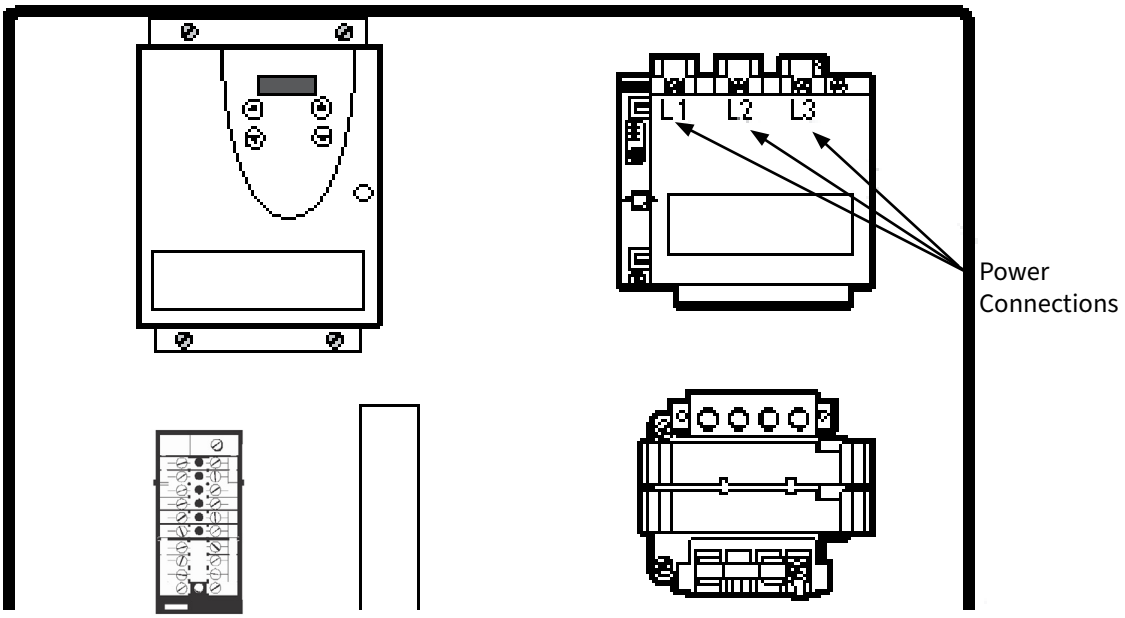


Figure 29: Power Connections in he Control Box

CAUTION

CAUTION use only the motor cable provided. Do not splice the cable. Doing so will void the warranty.

Make the Primary Connections:

1. Connect the grounding wire (ground wires and shield wire) to the ground terminals. (See Figure 30)
2. Connect the motor wires (black) to terminals T1, T2, and T3.

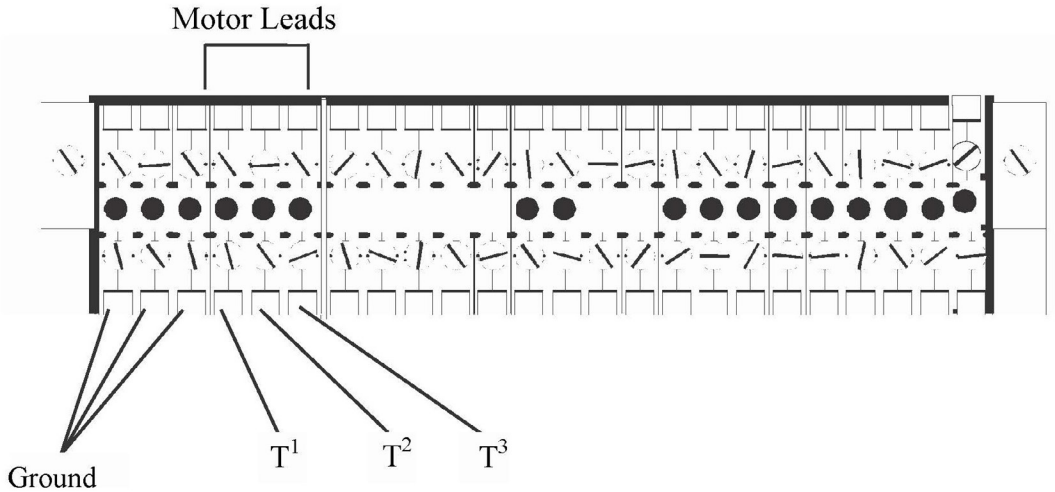


Figure 30: Ground Connections on Terminal Block

Photoeye Connections

1. Connect the photo-eye wiring to the terminal block. See figure 33.
   - Connect the white wire in the grey transmitter cable to terminal 5.
   - Connect the shielded wire in the grey transmitter cable to terminal 7.
   - Connect the white wire in the black receiver cable to terminal 6.
   - Connect the shielded wire in the black receiver cable to terminal 8.

   Photo Eye Connections - CONFIRM WITH ELECTRICAL DRAWINGS SUPPLIED WITH DOOR
2. Plug the photo eye amplifier into the 11-pin socket. See figure 31
3. Confirm set up of the amplifier. See figure 40 on page 34 and figure 41 on page 34.

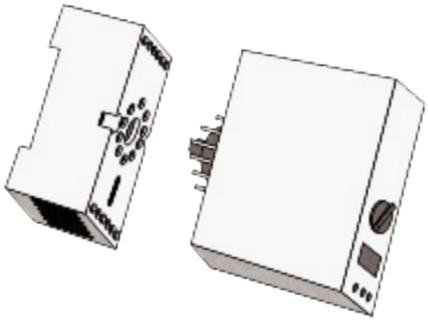


Figure 31: 11 Pin Socket For Photoeye Amplifier

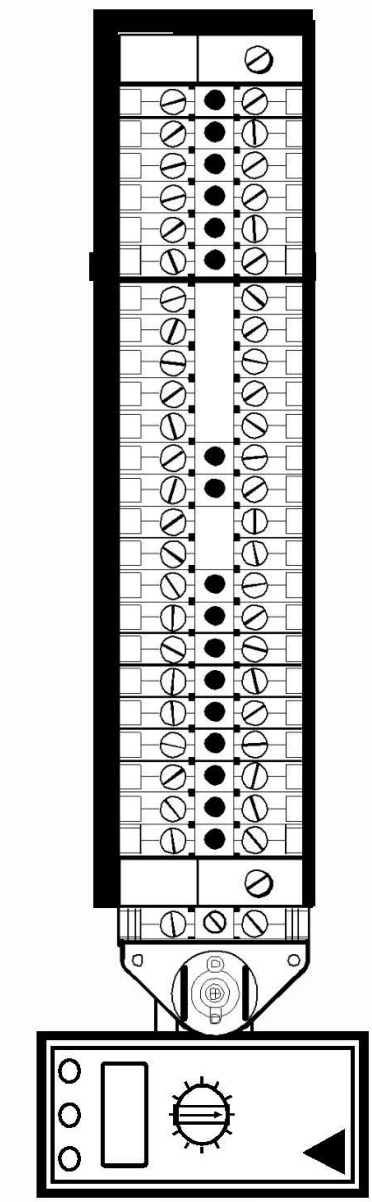


Figure 32: Terminal Strip, Wireless Detector, And Photo-Eye Amplifier

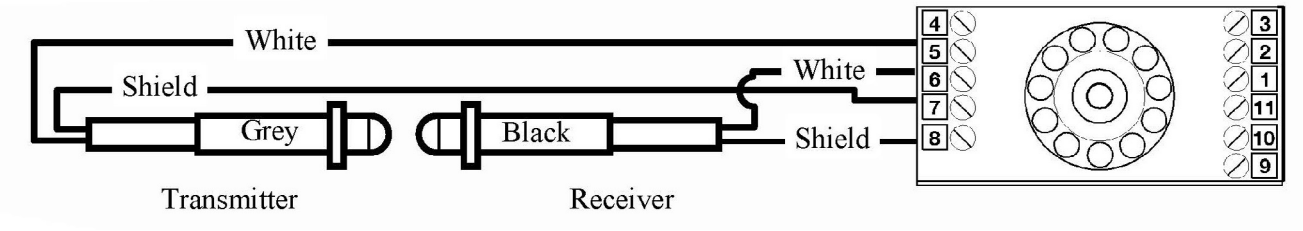


Figure 33: Photoeye Base, Transmitter And Receiver Wiring

Photoeye Connections Continued

NOTE

NOTE two sets of photoeyes are shown—one photoeye set is standard, the 2nd photoeye set is optional. The grey (Transmitter) and black (Receiver) locations on the side frames are reversed forthe upper (2nd) photoeye set installation as shown below.

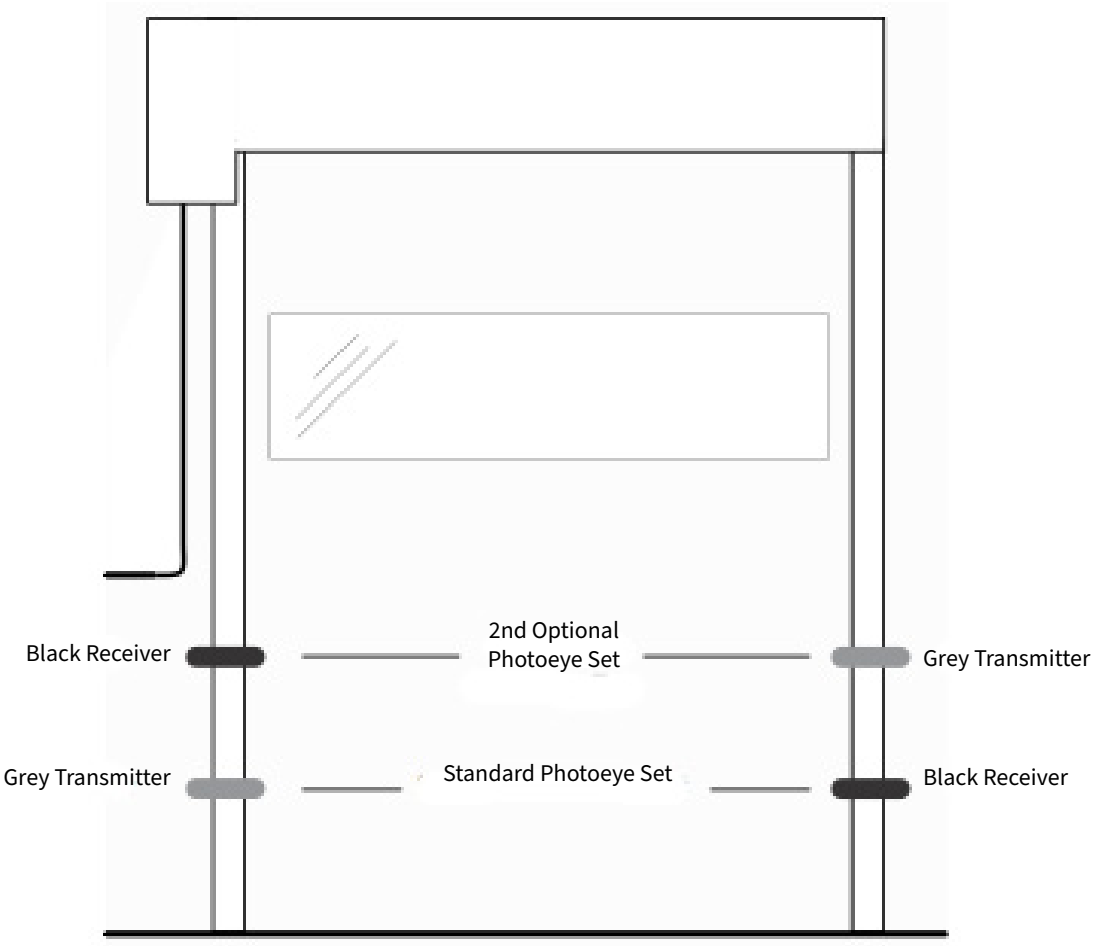


Figure 34: Photoeye Arrangement With Two Sets Of Transmitters And Receivers Installed

Encoder Connections Continued

Figure 35A: Attach Encoder Cable

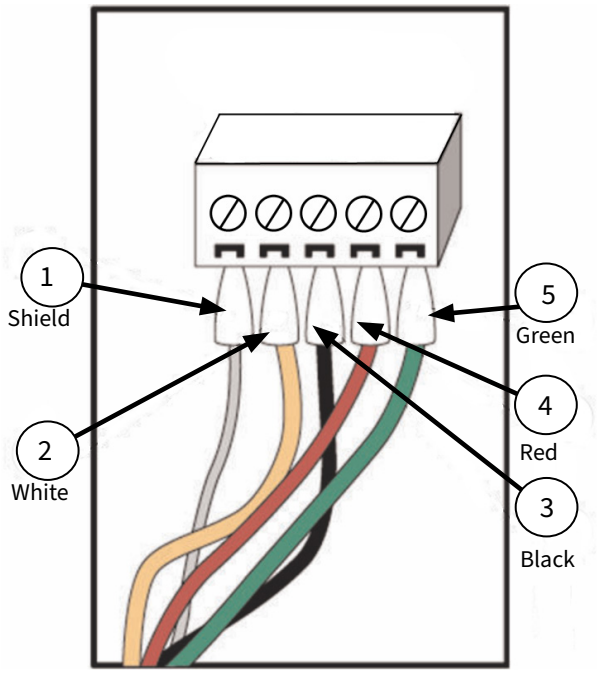
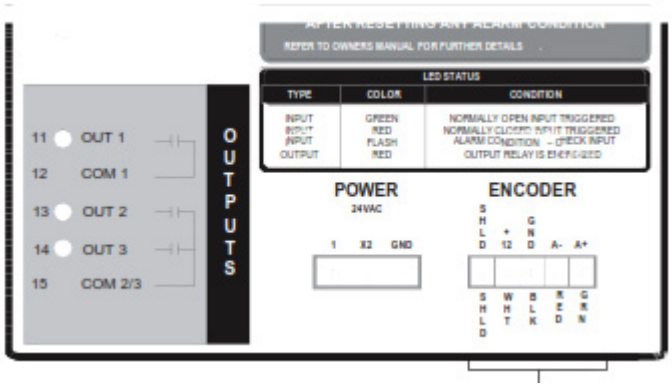


Figure 35B: Wiring the Green Connector

1. Attach Encoder Cable (found inside Control Panel) to bottom of the Encoder located on the Operator (see Figure 35A).
2. Insert the wires into the green connector as listed below. Terminals are ordered left to right (see Figure 35B)

- Shield = Terminal 1
- White = Terminal 2
- Black = Terminal 3
- Red = Terminal 4
- Green = Terminal 5

3. Insert the green connector into the Controller. See Figure 36.



Insertion point for green connector

Figure 36: Insertion Point For The Green Connector

Wiring Accessories

Run Wire for Accessories:

Run the wiring for the activation accessories but do not connect them. See the appropriate appendices in this manual for wiring. Connect the activation accessories after the installer has finalized the door.

⚠ WARNING

WARNING read and understand the Start-Up procedure in this manual before attempting to power-up the door. Failure to do so could result in damage to the door and/or death or serious injury to the installer and will void the warranty.

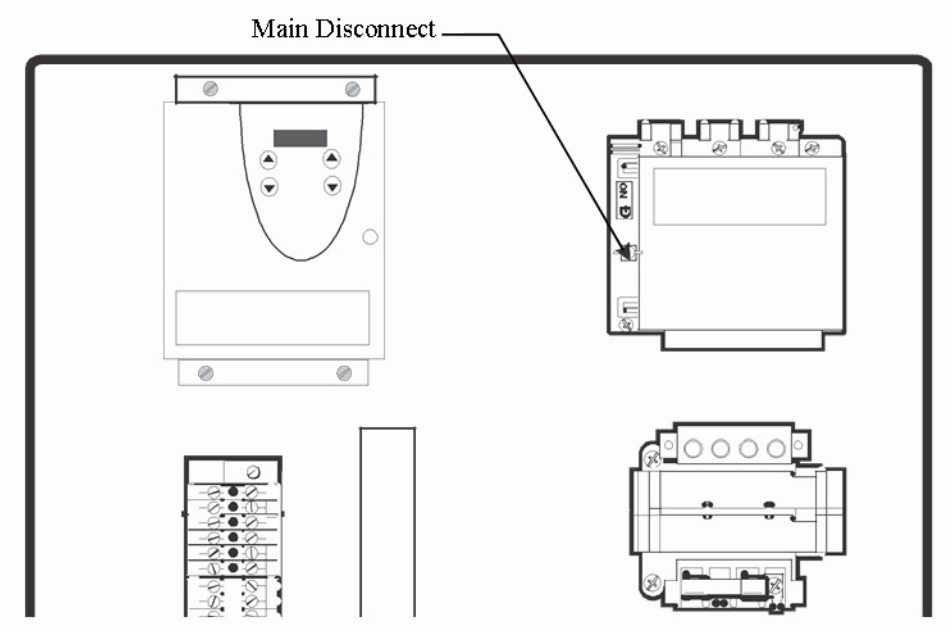


Figure 37: Main Disconnect

Turn on the Main Power:
The controller display should read SET LIMITS on initial power up. See the section titled “Set Door Limits” for more information on setting the door’s limits.

Final Checks and Verification

Finalizing the door includes setting the door’s open and close limits, ensuring that the door works properly, and connecting the activation accessories.
Note: An electrician should connect the accessories to the terminal block if possible.

Before you begin:

- Verify that the wiring is properly connected and the control box has power.
- Confirm that the connections are properly grounded.
- Confirm that the cable connections are positioned in their terminal slots correctly. (Photoeyes and Reversing Edge)

Setting Door Limits

CAUTION

CAUTION automatic activations should be disconnected prior to setting limits. If connected the door may activate and injury or damage may occure.

The controller controls and monitors the curtain's open and closed position. Once you set the all the limits, test the door to ensure that it is working properly.

CAUTION

CAUTION confirm that all electrical connections are properly wired and terminated before powering up. Refer to the wiring diagram that was stored in the control box.

1. Enter the programming mode.
2. Press and hold both PROGRAM buttons until display changes to password. After display changes, release buttons. See Figure 38.

- Press and release one of the PROGRAM buttons to scroll up or down until the password, 777, displays in the LCD.
- Press and release the ENTER button. LimitSet displays in the LCD. See Figure 39.

NOTE

NOTE on initial start up the password screen will be bypassed, and the controller will directly enter the LimitSet screen. See Figure 26. If this is the initial startup, skip step #1 & #2 and go to step #3. If not, start at step #1.

NOTE The door is out of phase if it moves up instead of down. Turn power off and switch T2 & T3 on the terminal block. Turn power on and return to step one.

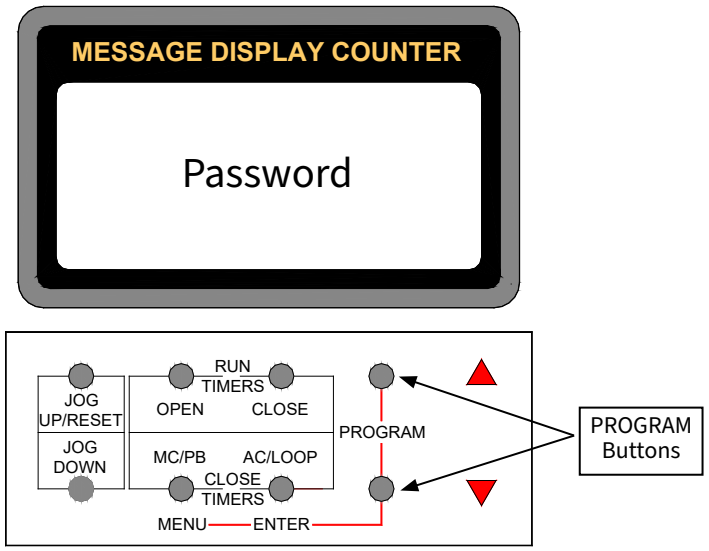


Figure 38: Controller Program Mode

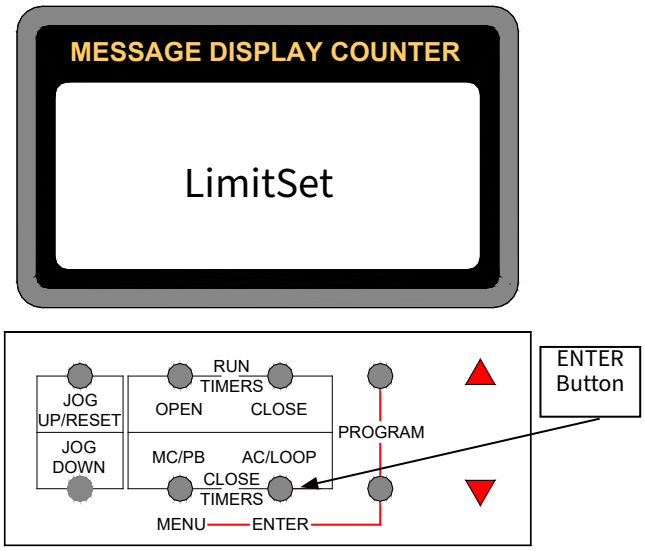


Figure 39: ENTER Button

Setting Door Limits Continued

3. Set the close limit position.
   - Press and release the Enter button. ClsLimit displays in the LCD.
   - Press and release the Enter button. JogToCls displays in the LCD.
   - Press the JOG DOWN button to bring the door down to desired close position. See Figure 40.
   - Press and release the ENTER buton to save limit setting. ClsLimit_Set - OK displays in the LCD.
4. Set the photoeye shut-off position.
   - Press and release one of the PROGRAM buttons to scroll up or down until the PhtLimit message displays in the LCD (photo eye shut off position). See Figure 41.
   - Press and release ENTER button. JogToPht_Enter displays in the LCD.
   - Press the JOG UP/RESET button to bring door up one inch above the photo eyes.
   - Press and release the ENTER button to save limit setting. PhtLimit_Set—OK displays in the LCD.

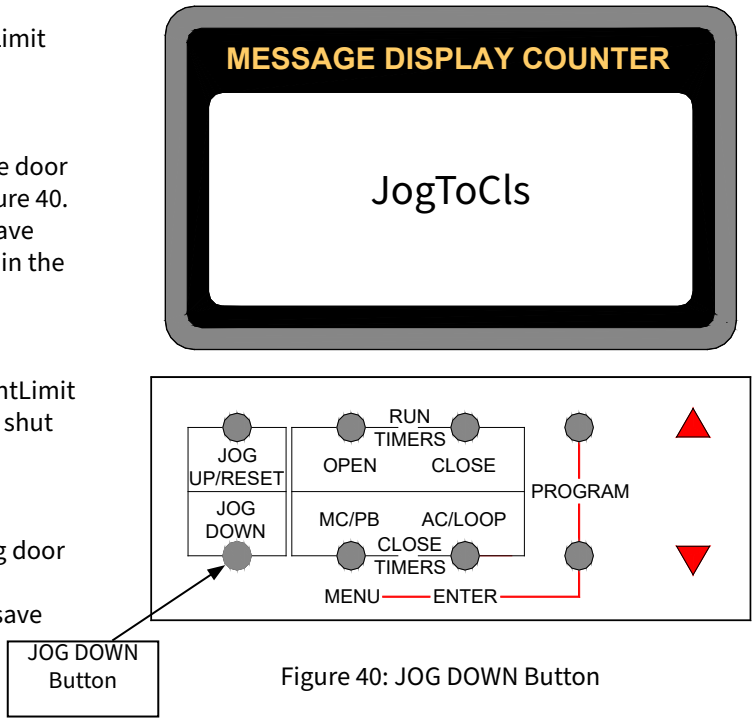


Figure 40: JOG DOWN Button

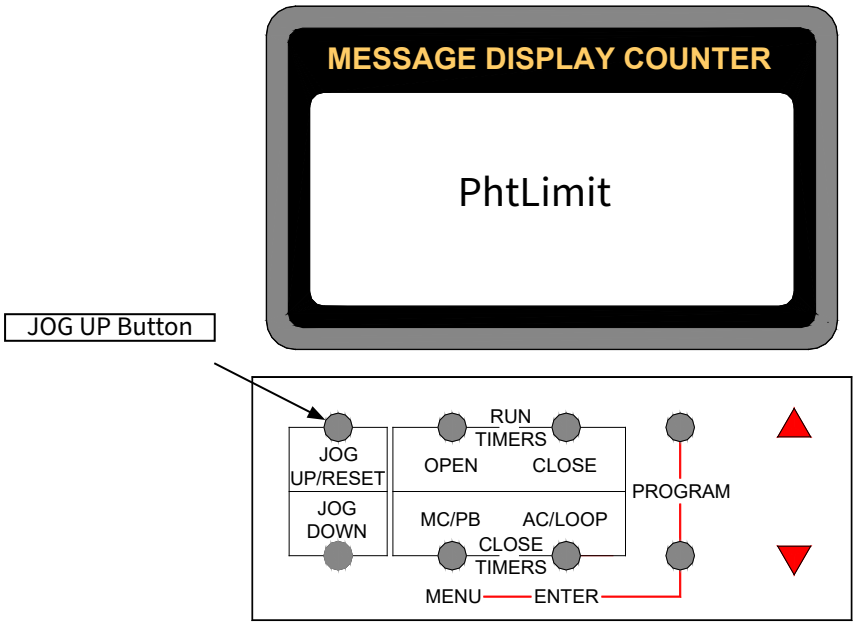


Figure 41: JOG DOWN Button

Setting Door Limits Continued

5. Set the open limit position.
   - Press and release one of the PROGRAM buttons until the Opn-Limit message displays in the LCD.
   - Press and release the ENTER button. JogToOpn_Enter displays in the LCD.
   - Press and release the JOG UP/RESET button until the door is in the desired open position (see Figure 42 & 43)
   - Press and release the ENTER button to save limit setting. Opn-Limit_Set—OK displays in the LCD.
6. Press and release the MENU button twice. Ready displays in the LCD. See Figure 44.
7. Press the JOG buttons to test the open and close limits. Install and test activation accessories.

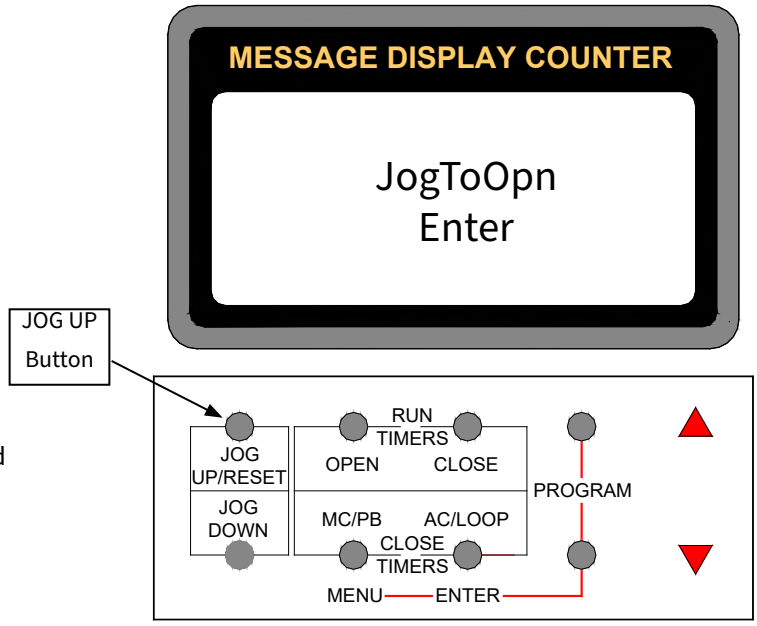


Figure 43: JOG DOWN Button

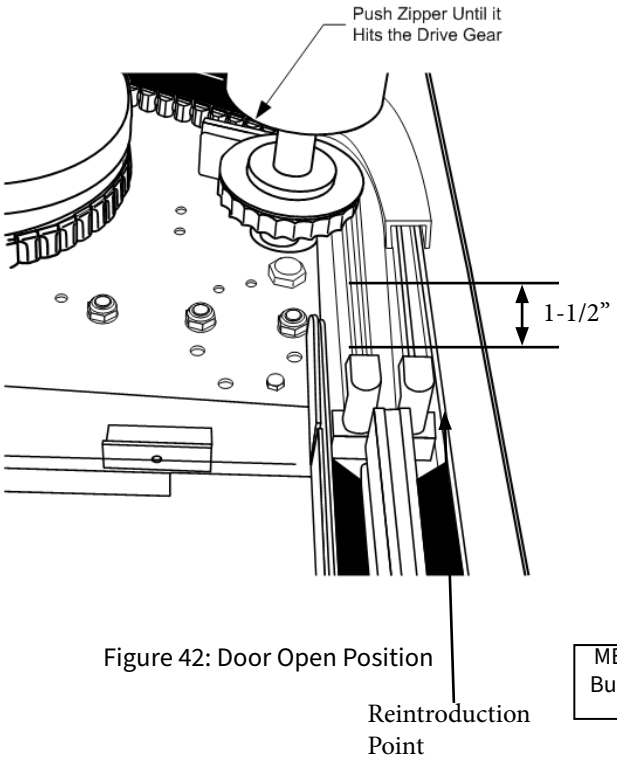


Figure 42: Door Open Position

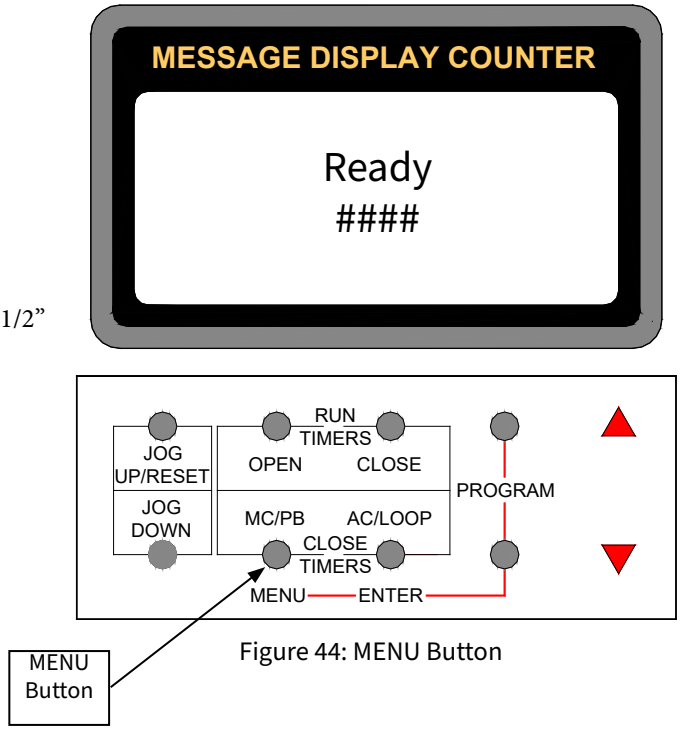


Figure 44: MENU Button

Install Activation Devices

Install and Test Activation Accessories:

The controller has nine inputs. Inputs are signals coming to the controller that get interpreted to create a certain response. For example, if a pull cord is wired to terminal 2, pulling the cord sends a signal to the controller. The controller knows what the signal is based on the assigned input (terminal 2), thus moving the door up or down. All the inputs have indicator lights and identification. See figure 45.

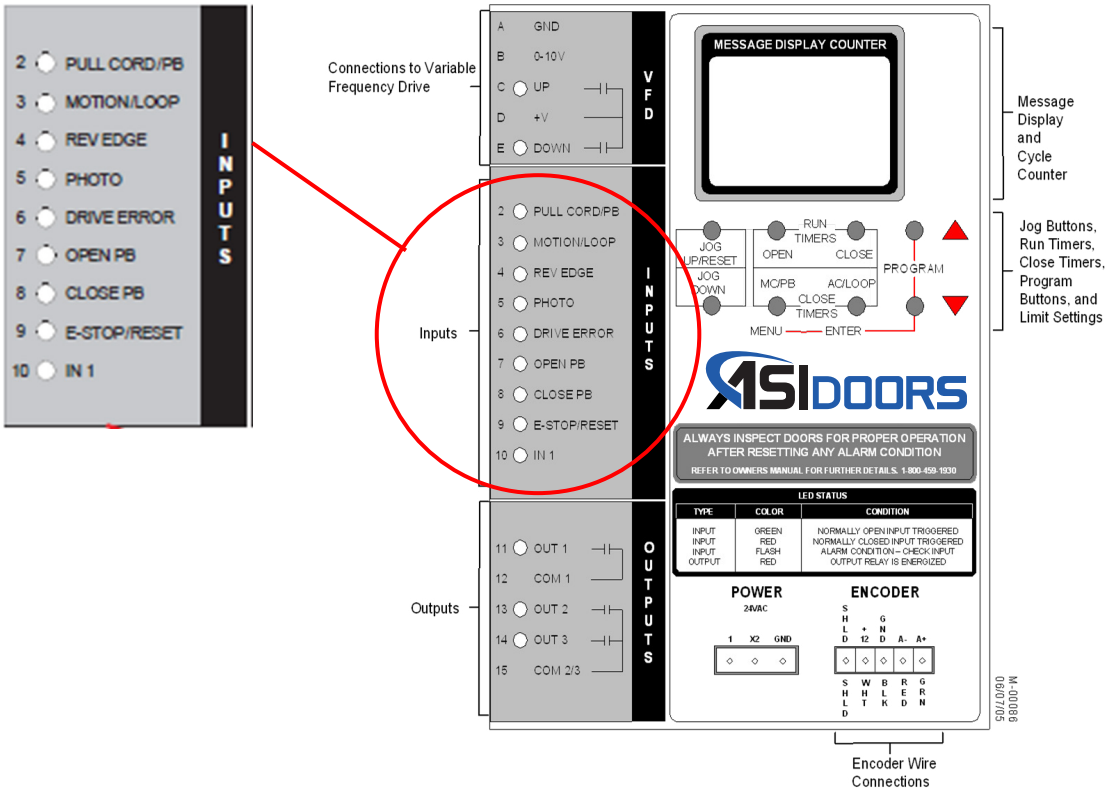


Figure 45: Accessory Inputs

CAUTION

CAUTION install, connect, and then test each of the activation accessories individually before proceeding to the next accessory. This allows troubleshooting of each component individually.

Set Timers

The open run timer and close run timer act as a failsafe to prevent the door from running continuously when the open or close limit switch fails to stop the door. These timers should be set for a period that exceeds the duration of a full open or close cycle.

- Press and release the open run timer button. Opening_time=## displays in the lcd. See figure 46.
- Press and release the program buttons to change the countdown time to the desired duration. See figure 47.
- The controller automatically saves the changes.
- Press and release the close run timer button. Closing_time=## displays in the lcd.
- Press and release the program buttons to change the countdown time to the desired duration. The controller automatically saves the changes.

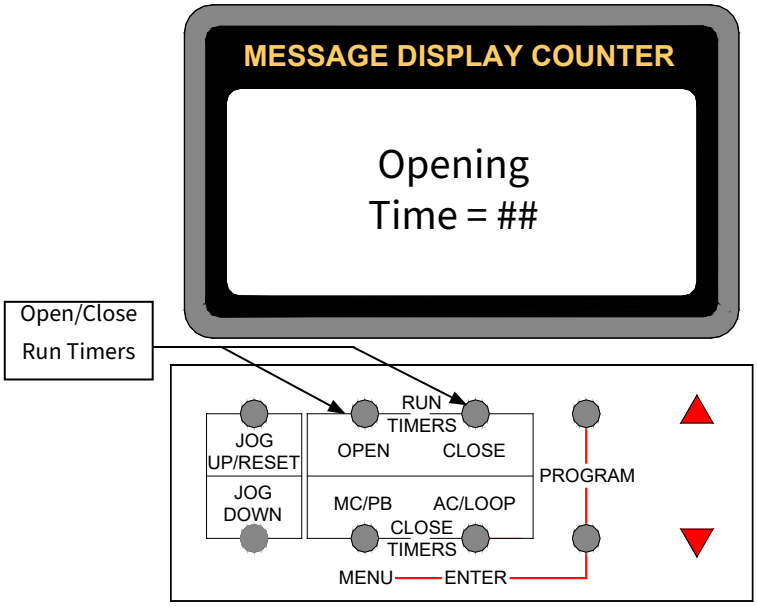


Figure 46: RUN TIMERS Buttons

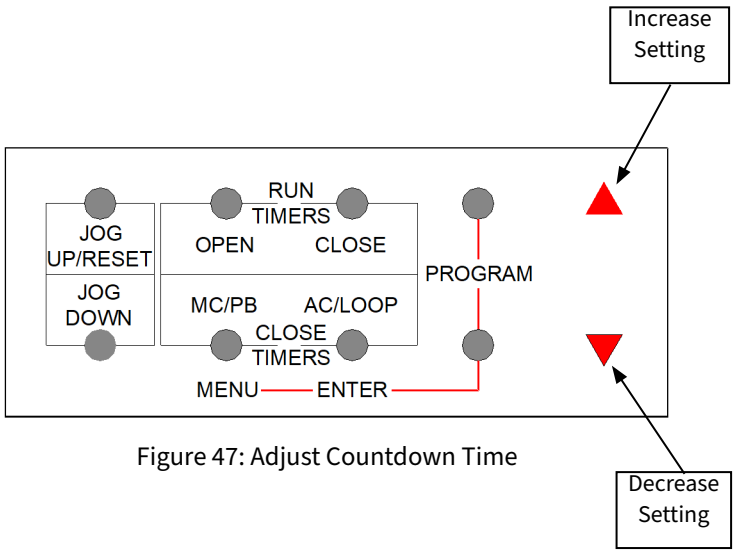


Figure 47: Adjust Countdown Time

Set Timers Continued

Set The MC/PB Timers:

The MC/PB timer activates a countdown timer for use with an activation installed on terminal number 2 (most commonly used for pull cords or push buttons). The MC/PB timer may be turned on or off, enabling manual operation or automatic operation by assigning a countdown value to the timer.

- Press and release MC/PB close timer button. MC Delay_Time=## displays on the LCD. See Figure 48.
- Press and release the PROGRAM buttons to change the countdown time to the desired duration (Maximum time 99 seconds). See Figure 49.
- The Controller automatically saves the changes.

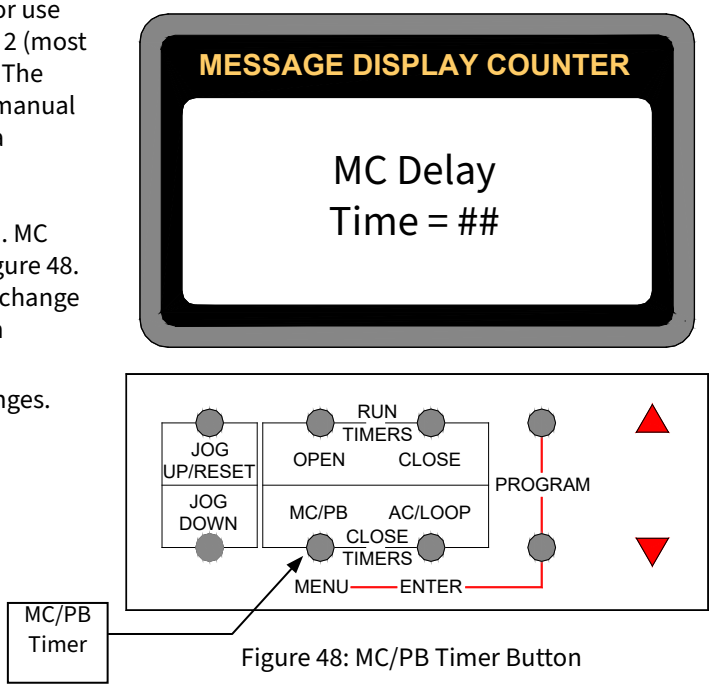


Figure 48: MC/PB Timer Button

NOTE

NOTE if the value is set to zero, the timer is deactivated and the activations put on terminal number 2 are now in manual operation. Press and release the PROGRAM buttons to change the countdown time to the desired duration.

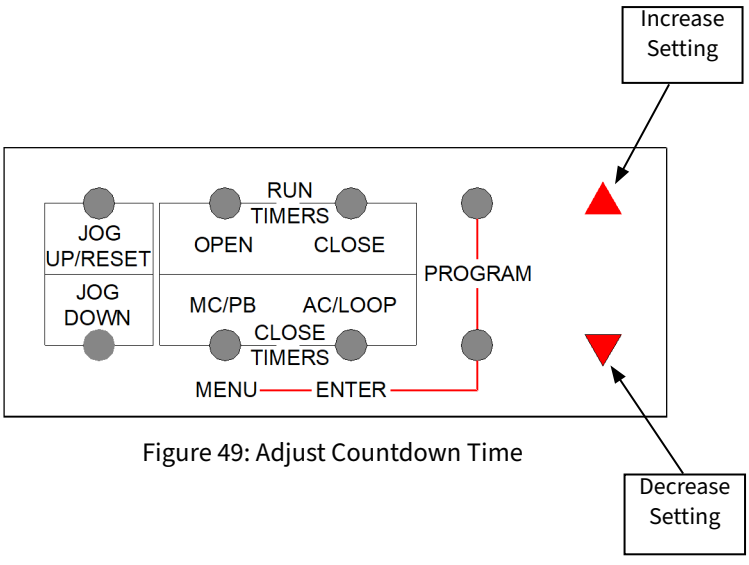


Figure 49: Adjust Countdown Time

Set The AC/LOOP Timer:

The AC/LOOP timer activates a countdown timer for use with a motion detector or floor loop. The AC/LOOP timer is also used when the reversing edge is triggered

- Press and release AC/LOOP close timer button. AC Delay_Timer=## displays on the LCD.
- Press and release MC/PB close timer button. MC Delay_Time=## displays on the LCD. See Figure 50.
- Press and release the PROGRAM buttons to change the countdown time to the desired duration (Maximum time 99 seconds). See Figure 51.
- The controller automatically saves the changes.

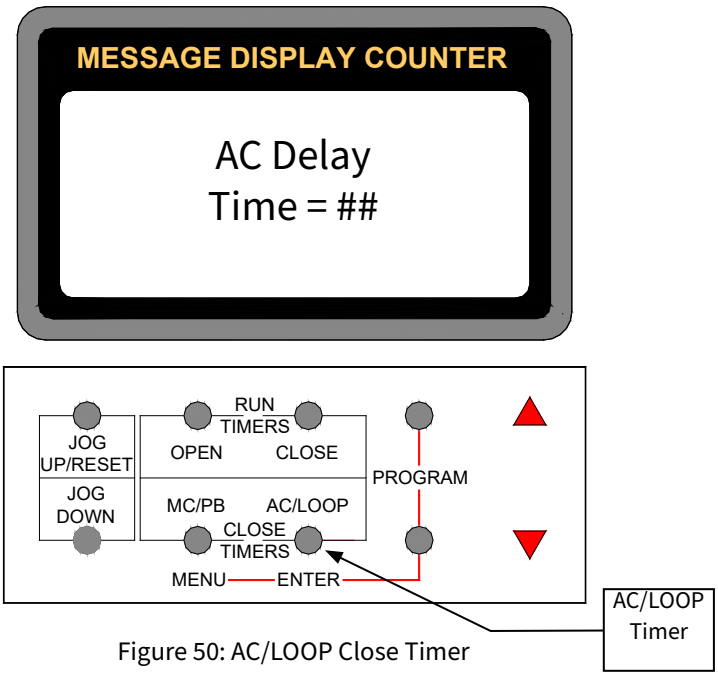


Figure 50: AC/LOOP Close Timer

NOTE

NOTE if the value is set to zero, the Door will come down when it reaches the open limit, after receiving an AC/Loop input, a reversing edge input, or a Photo-eye input.

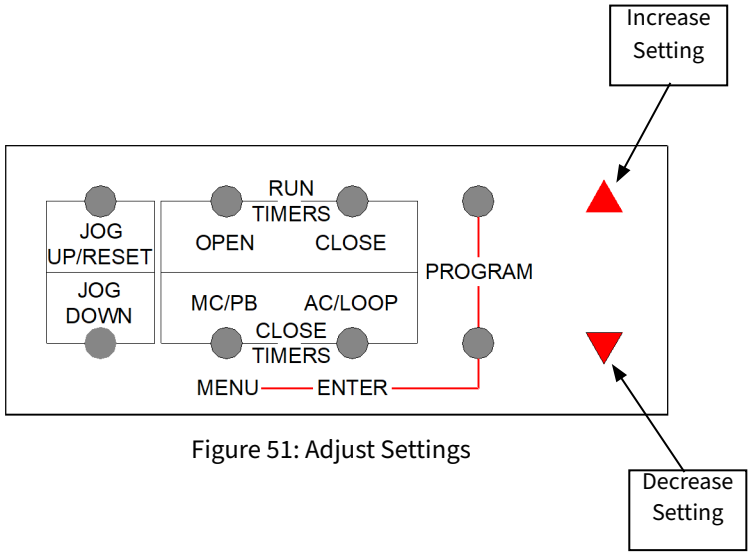


Figure 51: Adjust Settings

Calibrate AWDD Reversing Edge

Advanced Wireless Detection Device (AWDD):

The AWDD receiver provides a wireless connection to the bottom edge of the curtain.

1. Turn on the main control panel.
2. The receiver MUST be paired with the door.
3. On the receiver if 2 solid RED lights arelite, then go to the PAIRING instructions. If not, then go to the CLEAR/RESET instructions.

PAIRING Instructions (AWDD):

1. Lower door to allow for access to bottome edge.
2. Press & release pairing button, LED lights will both turn solid GREEN.
3. While both lights are GREEN (approx. 10 seconds) activate the edge on the curtain (if lights return to RED status repeat step 2).
4. Receiver light should blink both lights GREEN twice, then turn sold GREEN
5. With both lights GREEN press pairing button again to complete the pairing process.
6. At this time only 1 GREEN light should be lite.
7. Test edge, the GREEN light should blink twice when activated.
8. Unit is now ready to run.

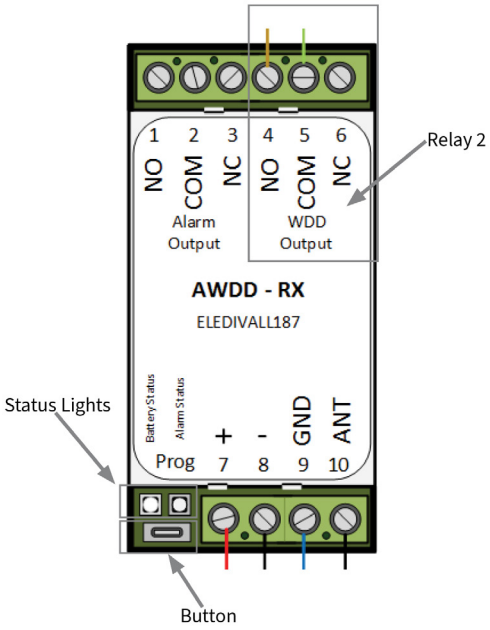


Figure 52: WDD Receiver

NOTE

NOTE the alarm status light will blink approximately every 5 seconds.

CLEAR/RESET Instructions: (AWDD):

1. Press & release pairing button, repeatedly until 1 solid GREEN light is on.
2. Press & hold until both GREEN lights flashes (min. of 5 seconds)
3. While flashing press & release pairing button 1 time (must be done within 5 seconds of both).
4. Once released both lights should be solid RED within 3 seconds.
5. Go to pairing instructions set sync transmitter to receiver.

Photocell Installation and Set-Up

1. Confirm Photocell Amplifier is seated properly in gray eleven-pin socket.
2. Confirm adjustment knob is in the auto position.
3. Confirm power on.
4. Lights 1 & 2 will illuminate green. Lights 3 & 4 will illuminate amber. Refer to Figure 53.
5. After door limits are set, verify operation of photocells by blocking beam and assuring the door reverses.
6. Under normal operations lights 3 & 4 will go out when beam is blocked.

L1 - Illuminated if in Auto Mode
L2 - Illuminated to DIP Switch one's setting:
A = Green
B = Amber
L3 - Indication of operation:
Red = Alarm Condition
Amber = Good Signal
Non = Beam broken or alignment switch turned on.
L4 - Illuminated when beam not blocked.

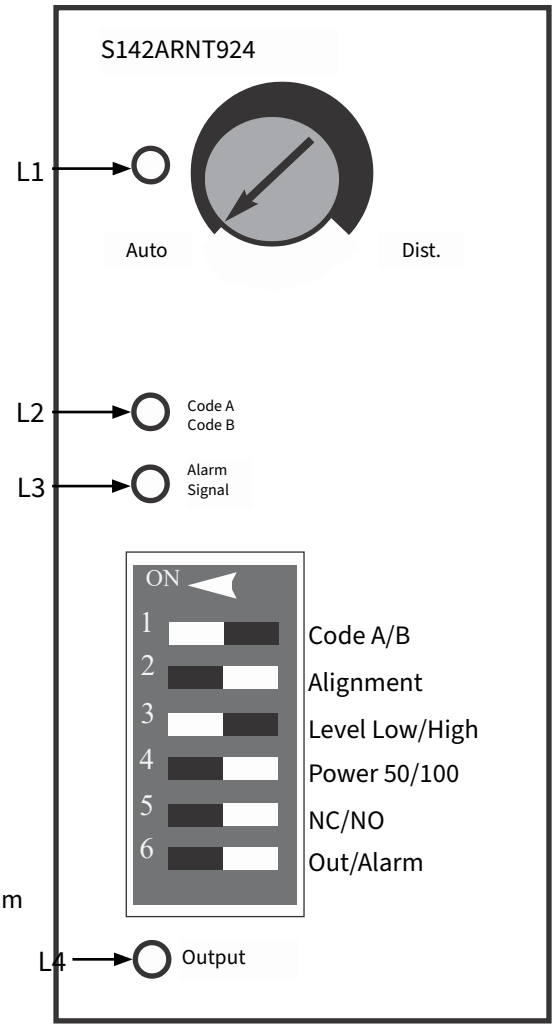


Figure 53: Photoeye Amplifier Controls

DIP Switch Description:

DIP Switches come preset and need not be adjusted unless otherwise advised. Refer to Figure 54.

DIP Switch 1 - Controls the switch code A or B.
- Code A - Single photocell
- Code B - Two sets of photocell, avoids crosstalk between them

DIP Switch 2 - Alignment of photocell.
- ON - Able to tune photocell via manual adjust dial/physical alignment of photocell. L3 will illuminate steady for a strong signal or blink slowly for a weak signal.
- OFF - Normal operation/L3 illuminated.

DIP Switch 3 - This switch selects the power gain. Low or High.

DIP Switch 4 - Power level 50% or 100%.

DIP Switch 5 - Selection on output contact N/O or N/C.

DIP Switch 6 - DIP Switch needs to be left in alarm position, used to alarm when photo eyes shorted or malfunctioning.

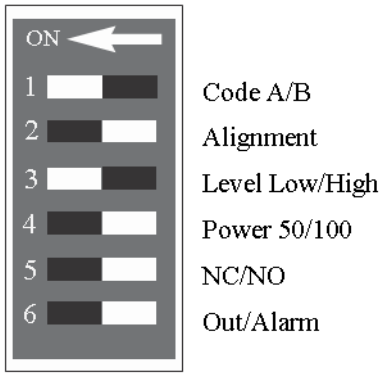


Figure 54: Photoeye DIP Switch Presets

Install Covers:

As a final step, ensure that all covers are installed on the door.

- Motor / Fabric Roll
- Side Guides

Preventative Maintenance

⚠ WARNING

WARNING only certified personnel should perform maintenance on the doors. Maintenance performed by untrained technicians may result in injury and/or damage to equipment.

CAUTION

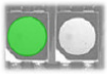
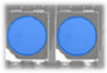
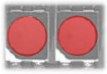
CAUTION Lock out / tag out procedures must be performed while performing maintenance tasks on the doors.

NOTE

NOTE service performed by unauthorized persons may void the Door warranty.

NOTE the door must be lubricated monthly to ensure proper operation. Apply white lithium spray grease along the inner face of the side guides and the curtain teeth.

Reversing Edge Status

Mode	Information sent by the transmitter	Alarm output status: Relay 1	WDD output status : Relay 2	« Battery status » LED 1	« Alarm status » LED 2	
Normal *(*Vbat>2.8V)*	Battery OK	OFF	OFF	Green continuous	OFF	
Battery Low *(2.8>Vbat>2.2V)*	Battery Low	ON	OFF	Blue continuous	Blue continuous	
Battery very Low *(2.2V>Vbat>2.0V)*	Battery very Low	ON	ON	Flashing Red	Flashing Red	
Normal	Safety edge input activated (<10s)	OFF	Moments ON (1s)	Flashing Green when a WDD output is active / Else Battery status	OFF	
Cont. pressed	Safety edge input activated (>10s)	OFF	ON	Battery status	Red continuous	
Not synced / Battery discharged	Not synced with a transmitter	ON	ON	Red continuous	Red continuous	

Vbat : Transmitter **ELEDIVALL188 Battery tension.*

MAINTENANCE

Preventative Maintenance

Maintenance List

	Category	Component	Inspections	Corrective Measures
Daily	Safety Controls/ Operations	Photo Eyes	• Eyes are clean and free of debris • Door Reverses when beam is broken • Adjusted and aligned in accordance with the specifications described in this manual.	• Clean the Photo eyes. Replace broken parts. • Adjust as described in this manual
		Bottom Edge	• Door reverses when tripped • Adjusted and aligned in accordance with the specifications described in this manual.	• Replace or repair broken parts
	Door Controls	Activations	• Test each activation for proper function and distance from the door (where applicable). Then distance assures that there is enough time for the door to open.	• Repair as needed.
		Function Buttons	• Test each button on the front panel, the emergency stop, and the main rotary disconnect for proper function.	• Repair as needed.
		Door Limits	• Test each limit for proper function and distance. • Test door for smooth operation. No jerking should occur.	• Repair and adjust as described in this manual
	Curtain	Teeth	• Inspect for broken or missing teeth.	• Replace teeth as needed
		Curtain	• Inspect for broken cables, rubber delaminating, holes and other damage.	• Repair as needed.
		Windows	• Inspect for holes, delaminting, or cracking.	• Clean windows. PVC polish or cleaner, such as Novus scratch remover, may take scratches off.
Monthyly	Side Cuides	Side Guides	• Ensure that covers are properly installed • Test springs and hardware for tightness and proper functionality. • Verify that the inner side guide plastic track gap does not exceed 9.5mm. • Inspect for heavy splintering present along the guides. • Inspect for collision damage or other damage. • Remove old excess grease. • Apply lubricant to side guides.	• Repair as needed.
	Head Unit	Head Unit	• Inspect drums for damage. • Inspect upper and lower mutylene pieces for excessive wear. • Remove old excess grease from the drive sprockets.	• Repair as needed.
		Motor	• Verify that the safety cable in on the motor. • Verify that the motor mounting bumbers are tight agains the head unit, to ensure that the motor is not loose.	• Repair as needed.
		Counter Weight	• Inspect strap for fraying and cuts. • Inspect nylon pulley for wear. • Verify that counter weight movement is not obstructed. • Verify that pulley support is not bent or shifted to the side.	• Repair and adjust as described in this manual

Instructions for Ordering

This parts manual is intended to assist in the correct identification of the more commonly replaced parts; covering, generally, all models and styles offered within the marathon pharm. Line. The manual will also help identify obsolete parts, part design changes and current production parts. For more specific parts information, please contact an authorized representative or consult the factory's customer service or engineering departments. Asi doors reserves the right to discontinue any part and make design changes without notice.

General Instructions for Ordering Door Parts

Accurate information is always necessary to serve you correctly and promptly. Several steps should be followed to determine exactly the parts that are needed.

Refer to the information tag on your doors control panel and record the:

1. Door model number
2. Job number
3. Door number
4. Manufacturing date.

Use part numbers referenced in this manual.

If the item is not found in the manual, the product code on the back of the item is helpful.

If your door has no information label, the approximate purchase date is helpful.

Call

1-800-558-7068

or visit

asidoors.com/parts

to order parts

Mechanical Service Parts List

Item #	Description
1	Curtain
2	Vision Panel
4	Rubber Spacer Strips
6	Bottom Bag
8	Bellows
9	Bellows Retaining Straps
10	Intermediate Airpipe Connector
11	Airpipe
12	Zipper
13	Zipper Tooth
14	Lintel Sealing Flap
15	Horizontal U-Profile
16	Curtain Roll-Up Drum
17	Shaft with Airpipe Conct (Motor Side)
18	Airpipe Input Connector
19	Bearing
21	Airpipe Input Connector (On Shaft)
22	Driving Drum C'weight Side (Idler Side)
23	Shock Absorber
24	Driving Drum
25	Driving Drum (Opposite of Motor Side)
26	Support Plate, Drum Bearings
27	Shaft, Reducer Side
28	Support, Motor and Reducer
30	Driving Unit Elbow Guide
31	Bottom Guide (A Guide)
32	Driving Gearwheel
33	Upper Guide (B Guide)
34	Re-introduction Unit
35	Reducer
38	Motor
39	Motor Juction Box
43	Drivig Gearwheel of Limit Switch
44	Limit Switch Chain
45	Fast Link
46	Chain Cover

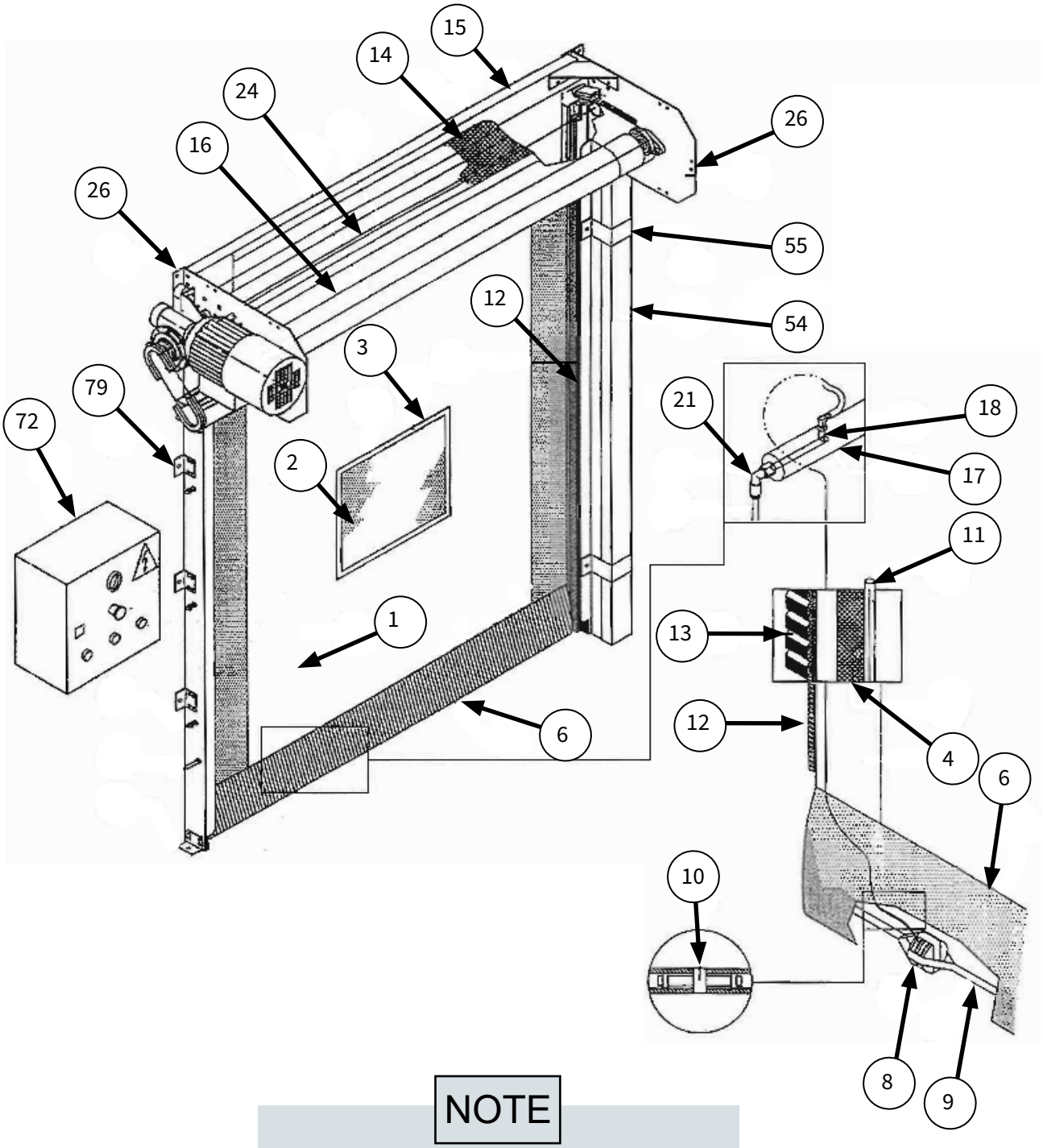
Item #	Description
47	Limit Switch
48	Movement Gearwheel (Limit Switch)
49	Declutching Washer
50	Limit Switch Support
52	Return Pulley of the Counterweight Belt
53	Mounting Bracket of the Return Pulley
54	Counterweight Cover
55	Mounting Bracket of the Counterwieght Cover
57	Upper Post
58	Guide Jenction
59	Side Guide
60	Inner Side Guide (Slide)
61	Sealing Flap
62	Hammer Screw
63	Spindle
64	Side Guide Spring
65	Frame Cover
66	Rubber Reinforcement Strip
67	Galv U-Profile Side Guide Reinf. (All Weather Only)
68	Infrared Sender - Receiver
72	Control Box
73	Motor Cover (Option)
74	Counterweight
75	Belt Cover
76	Gearwheel Cover
77	Drum Cover (Option)
78	Brackets for Drum Cover
79	Brackets for Drum Cover
80	Bracket Holder for C'Weight Bracket
81	Counterweight Belt
82	Support Plate Belt Cover
83	Support Plate Motor Cover
84	Access Plate for Adjustment of Limit Switches
85	Motor Handle Access Cover
87	Shaft, Return Pulley
118	Corner Bracket for Fixing Horz U-Profile

NOTE

NOTE this table lists description of parts for identification purpose shown on page 45 through 58. Consult ASI parts department to order replacements.

When ordering parts, specify Job Number, Door Number and Manufacture Date

Replacement Parts



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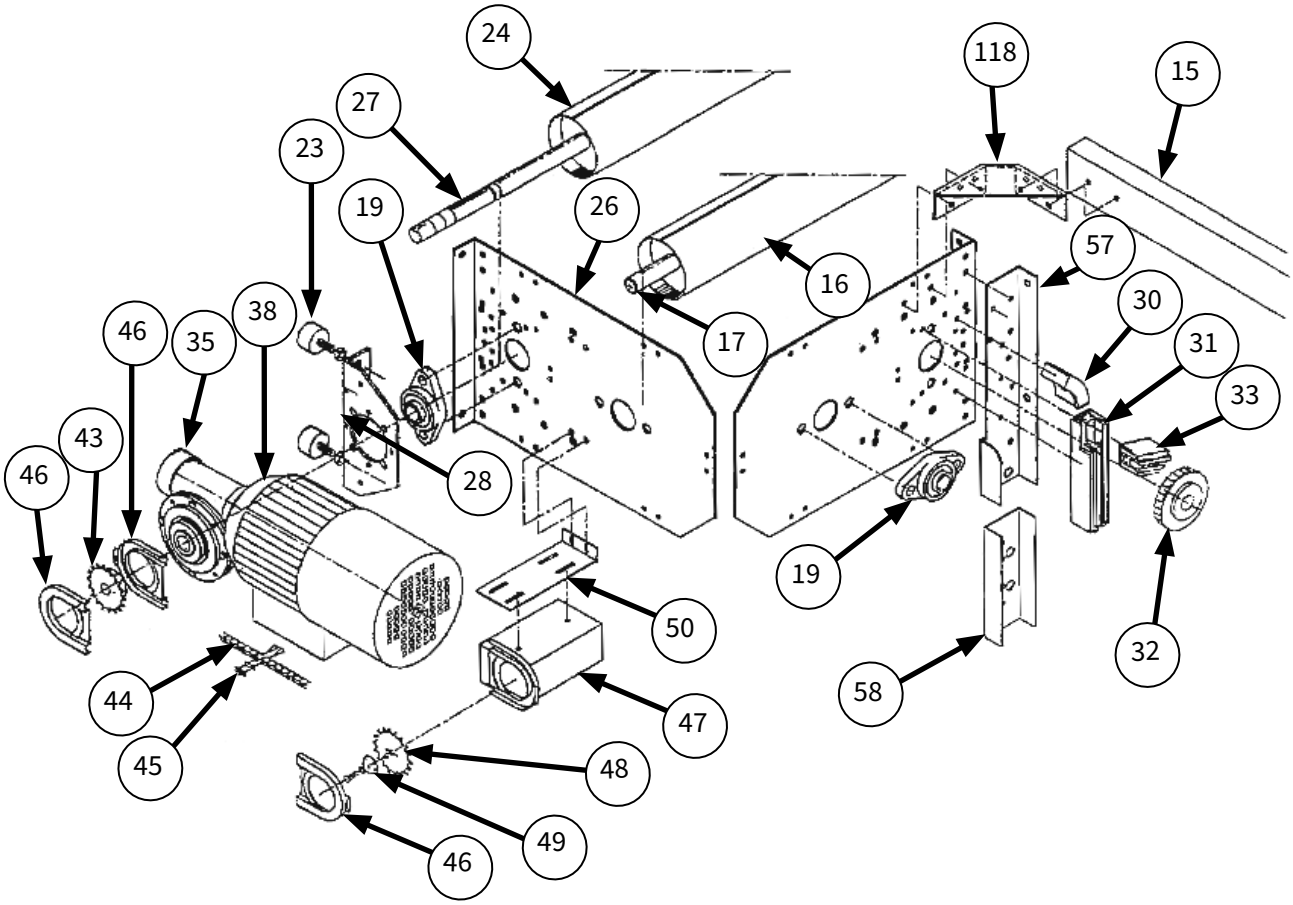

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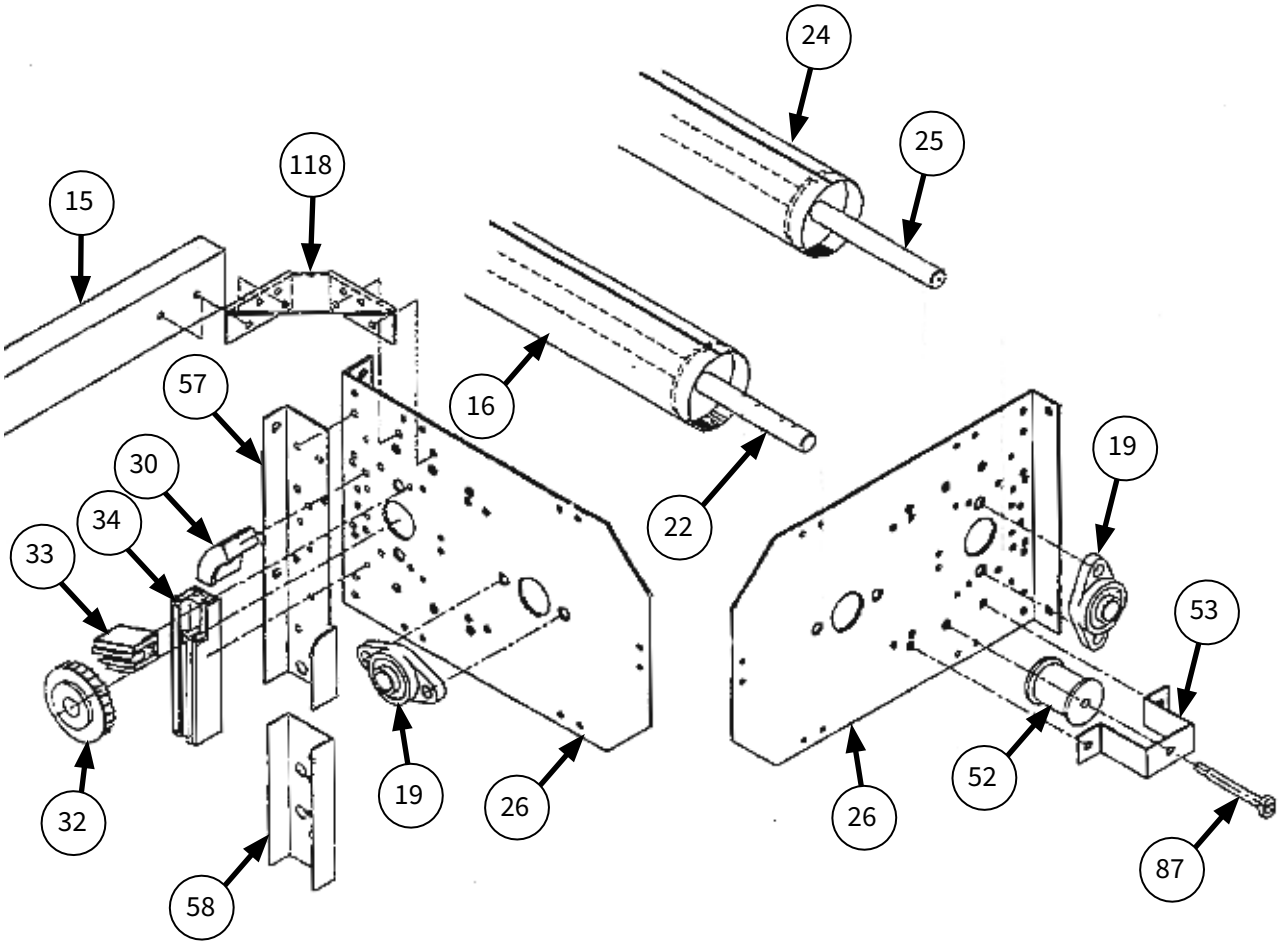

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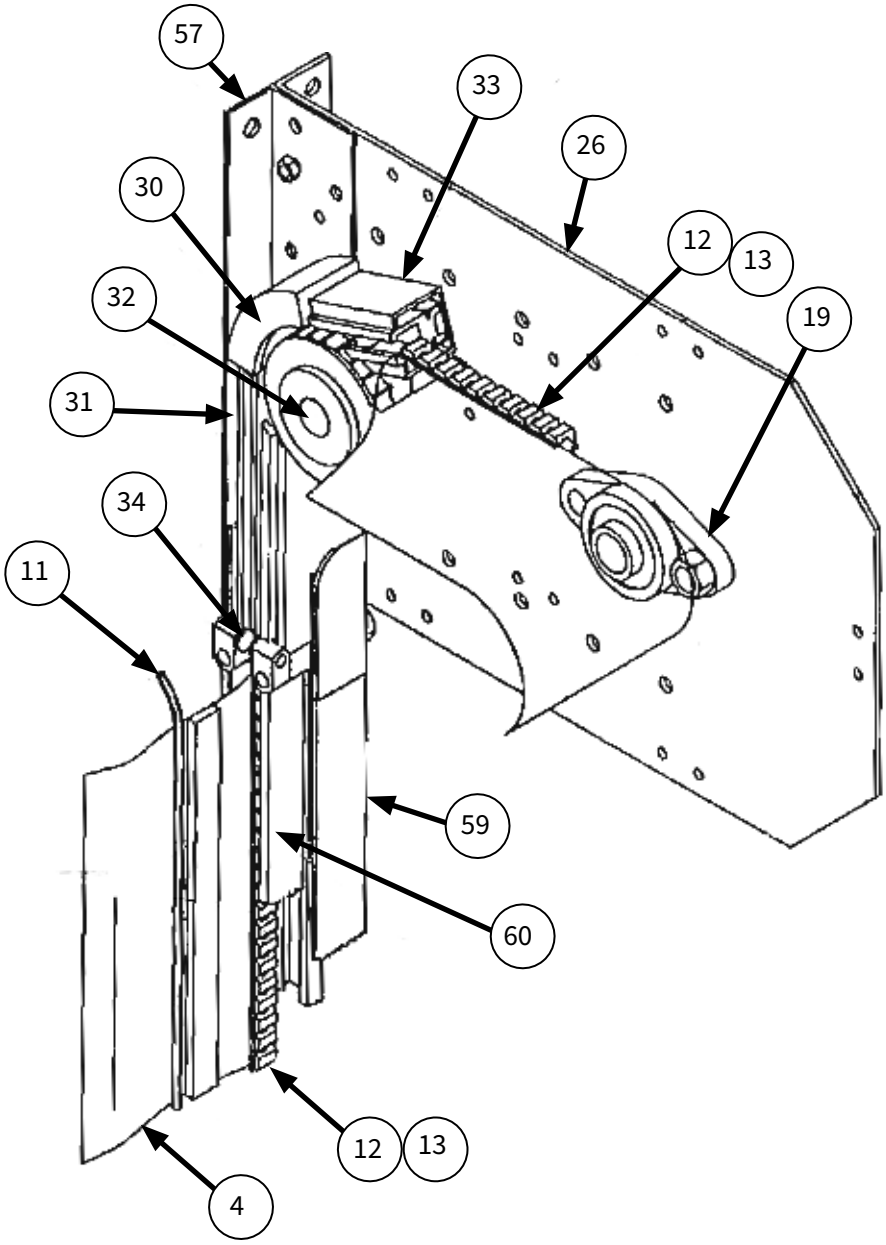

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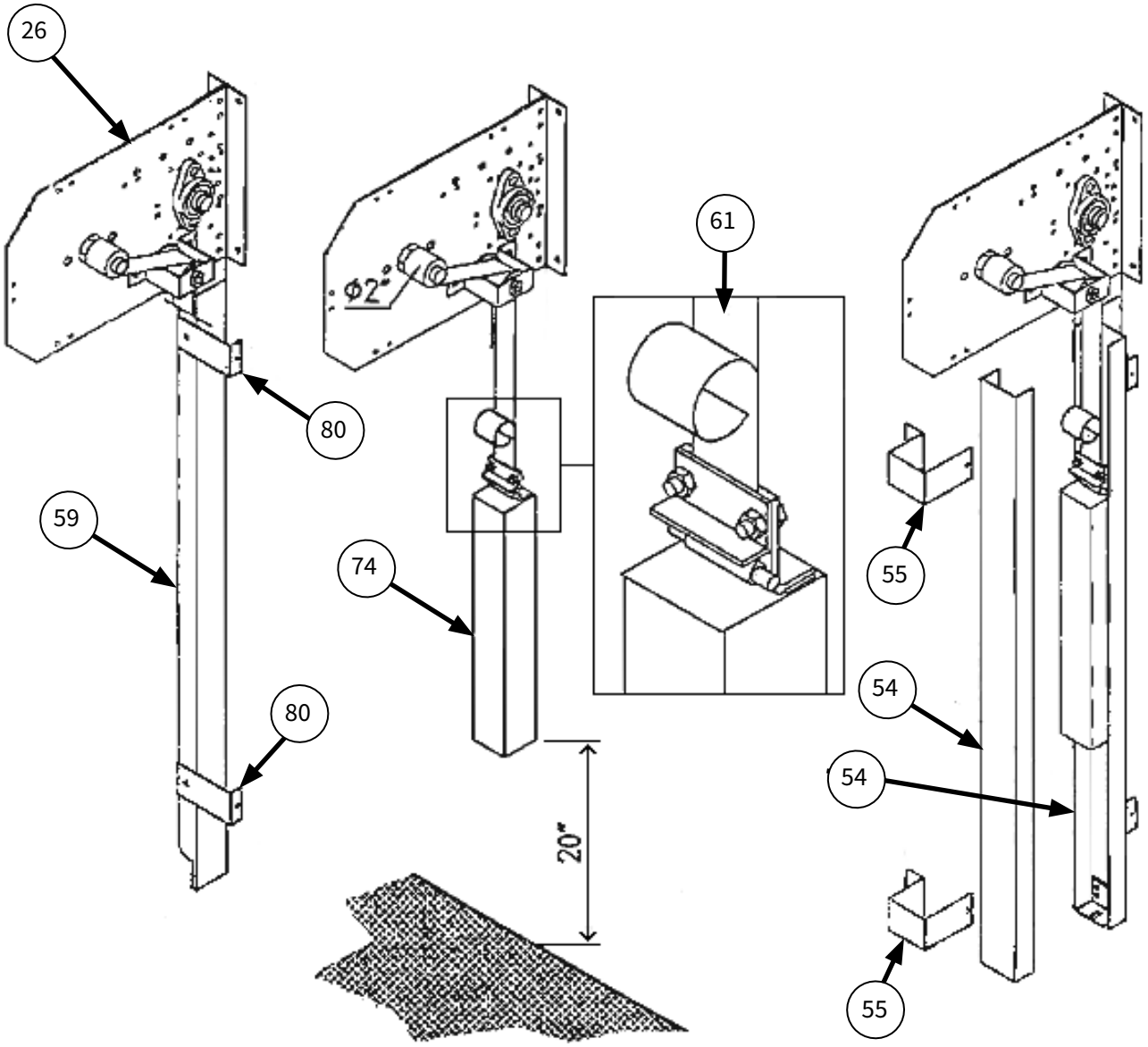

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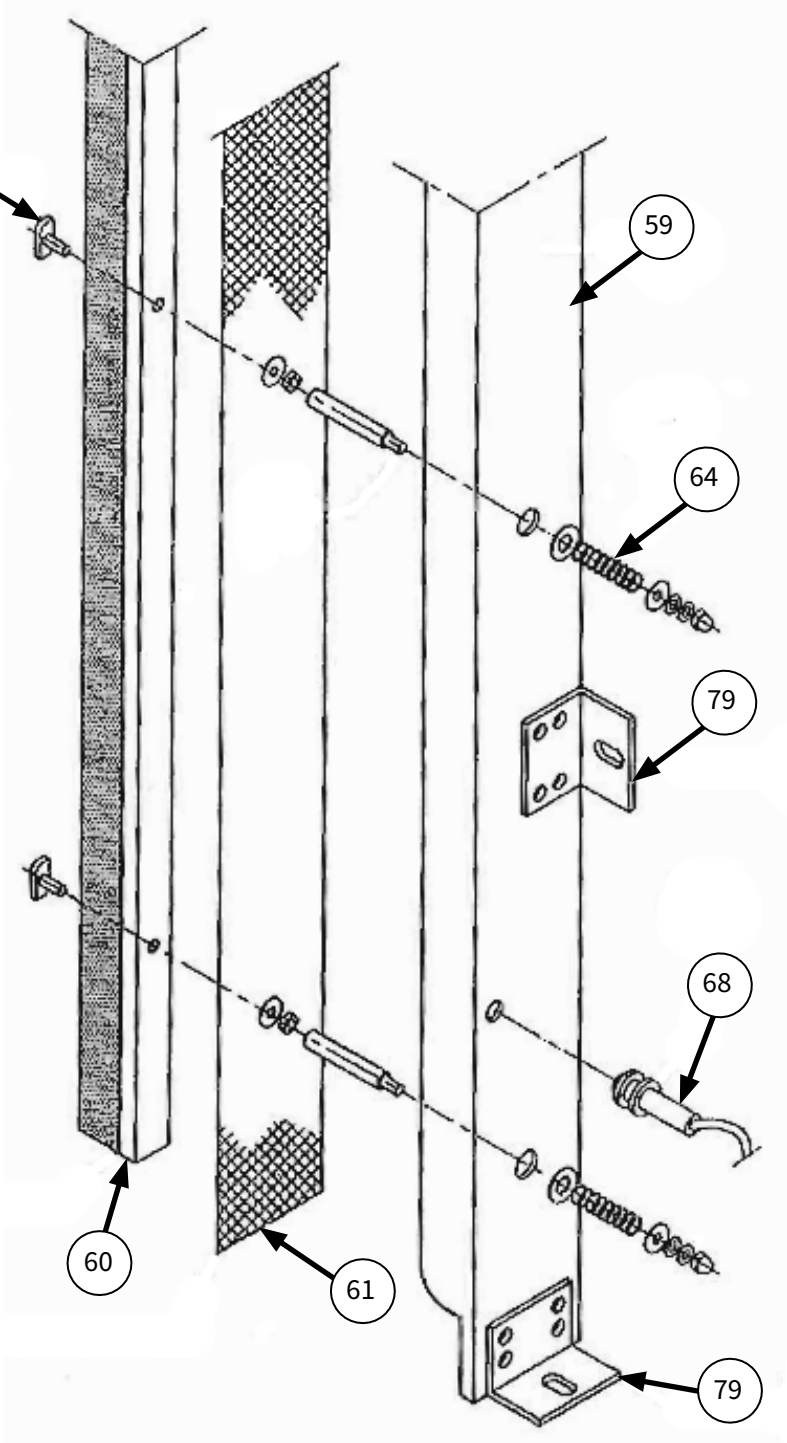

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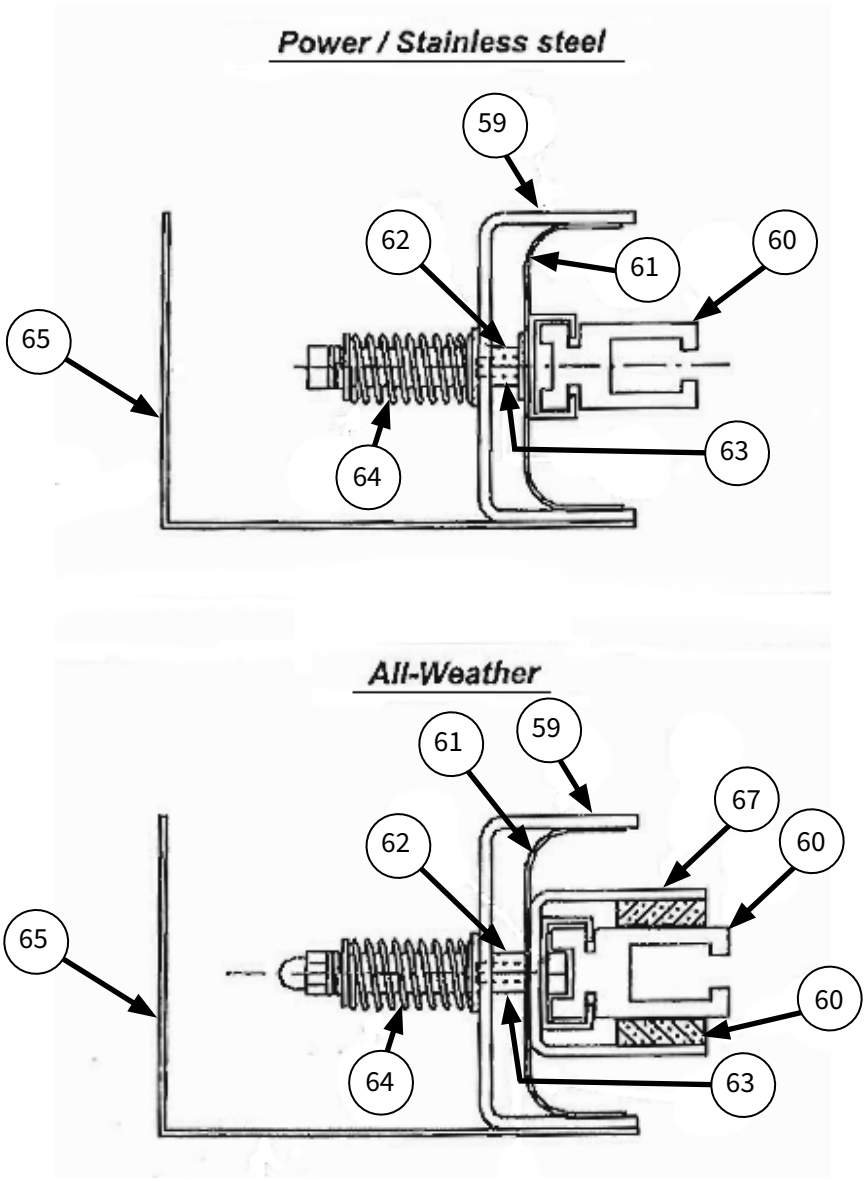

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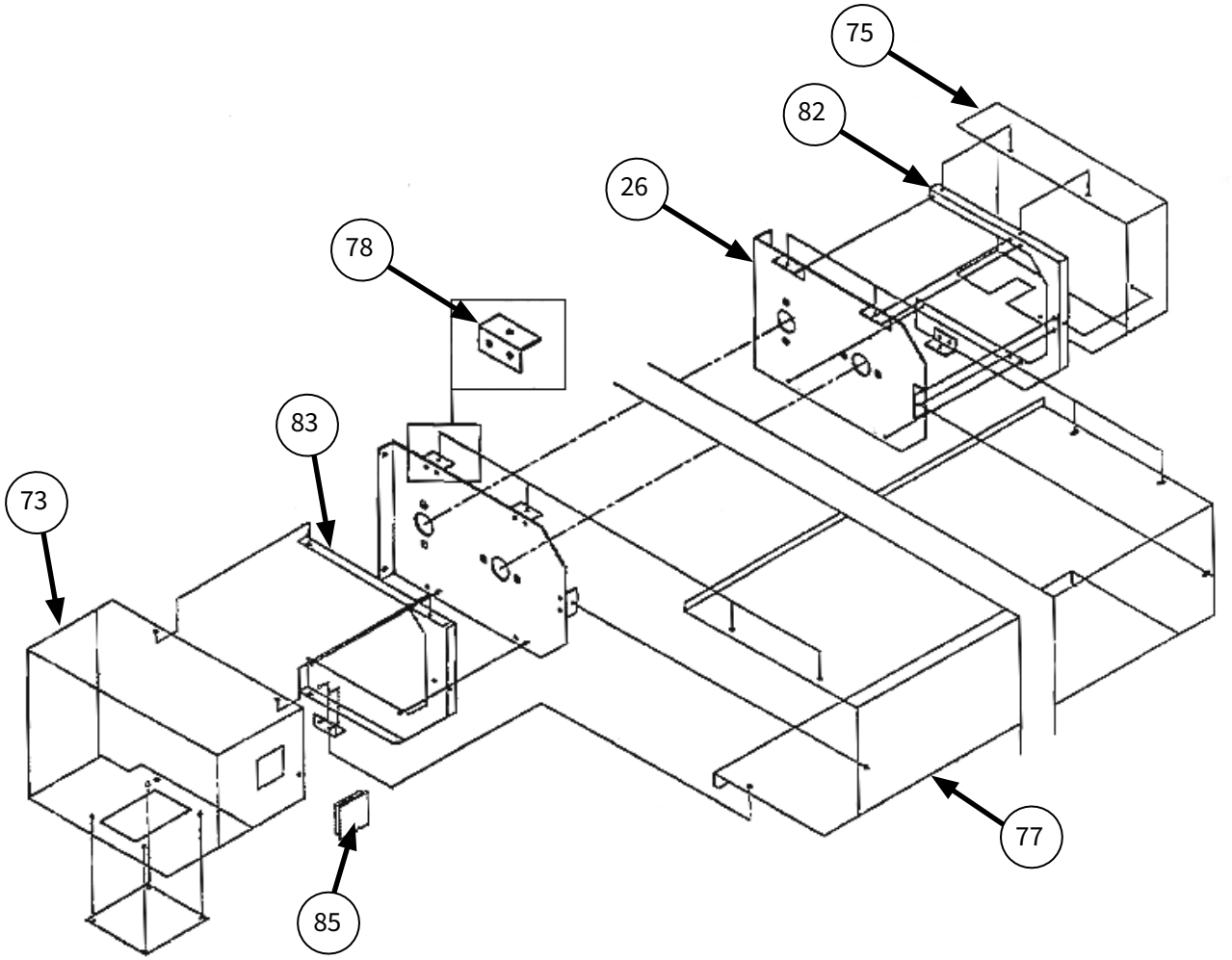

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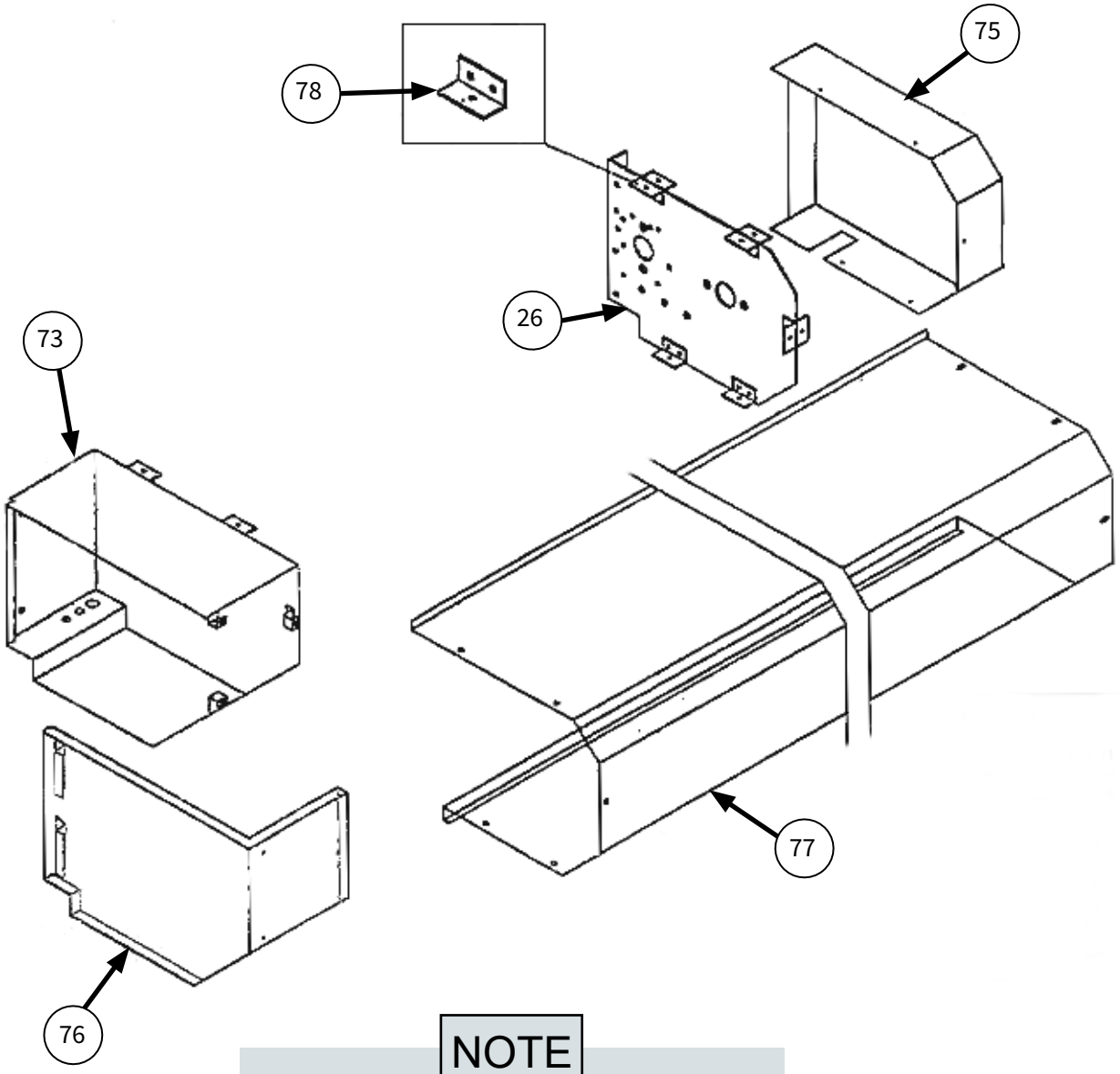

NOTE

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Replacement Parts Continued

615/615F Service Parts	
ASI Part Number	**Description**
23A0409	Photoeye set COMPLETE includes transmitter, receiver, amplifier
23A0410	Photoeye transmitter AND receiver
23A0411	Photoeye AMPLIFIER
23A0412	Photoeye amplifier BASE/SOCKET
23A0436	Diablo Mag. Loop
23A0413	Transformer, Step-down, 208/230/460 50VA
23A0415	Transformer, Step-down, 24/110V 100VA
23A0414	Transformer, Step-down, 208/230/460 100VA (Doors w/opt relays)
23A0427	Relay 24VAC - DPDT for optional interlocking, flashers, etc.
23A0428	Socket, 24VAC- DPDT
23A0429	Pushbutton, Standard
23A0430	Nameplate, Pushbutton, Standard (one dozen nameplates)
23A0431	Emergency Stop Pushbutton
23A0432	Nameplate, Emergency Stop, (one dozen nameplates)
23A0433	Selector Switch, Airlock
23A0434	Nameplate, Airlock, ON/OFF
23A0437	Terminal block, Ground 1 Dz.
23A0438	Terminal block, 35A, Blk, 1 Dz.
23A0439	Terminal block, 35A, Red 1 Dz.
23A0422	Fuse 0.5 Amp 600V Class CC - (one dozen fuses)
23A0423	Fuse 2.0 Amp 250V Class M - (one dozen fuses)
23A0406NV	Cable, motor (per FT)
23A0401NV	Cable, Encoder (per FT)
23A0421	ASILogix II Controller Board
23A0400	Encoder
50A0170NN	Teeth, Replacement
05A0030NN	Spare Patch Material
16B0051NV	Window, Banner, PVC, 15” H Per Ft Width
16B0053NN	Window, Banner, PVC, 24” x 24”
24A0118NV (OPTION)	Curtain assembly, < 45 sq Ft, 615/615F
24A0118NV (OPTION)	Curtain assembly, < 96 sq ft, 615/615F
24A0118NV (OPTION)	Curtain assembly, < 175 sq ft, 615/615F
24A0118NV (OPTION)	Curtain assembly, < 215 sq f,t 615/615F
24A0118NV (OPTION)	Curtain assembly, < 270 sq ft, 615/615F
24A0118NV (OPTION)	Curtain assembly, < 325 sq ft, 615/615F
24A0118NV (OPTION)	Curtain assembly, < 390 sq ft, 615/615F
16B0054NV	Insulated Panel Up Charge, Per Sq. Ft.
50A0171NN	6” Mutylene Inner Guide Piece
49A0020	Spring Kit 1.2” 14PCS (Power)
50A0172NN	Upper Drive Mutylene
50A0173NN	Lower Drive Mutylene
24A0106NN	Re-introduction Block, Model 615/615F
05A0031NV	Counterweight Replacement Belt
23A0424	WDD Transmitter, ≤ 12’ WIDTH (Inside bottom of Curtain)
23A0425	WDD Transmitter, > 12’ WIDTH (Inside bottom of Curtain)
23A0426	WDD Receiver (DIN rail mount-no socket)
23A0403NV	Cable, Anti-roll switch (per FT)
50A0174NN	6MM Allen Wrench - (For manual operation of door)
10A0041NN	Loctite adhesive for spare patch material

NOTE

NOTE this table lists description of parts for identification purpose shown on page 44 through 58. Consult ASI parts department to order replacements.

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